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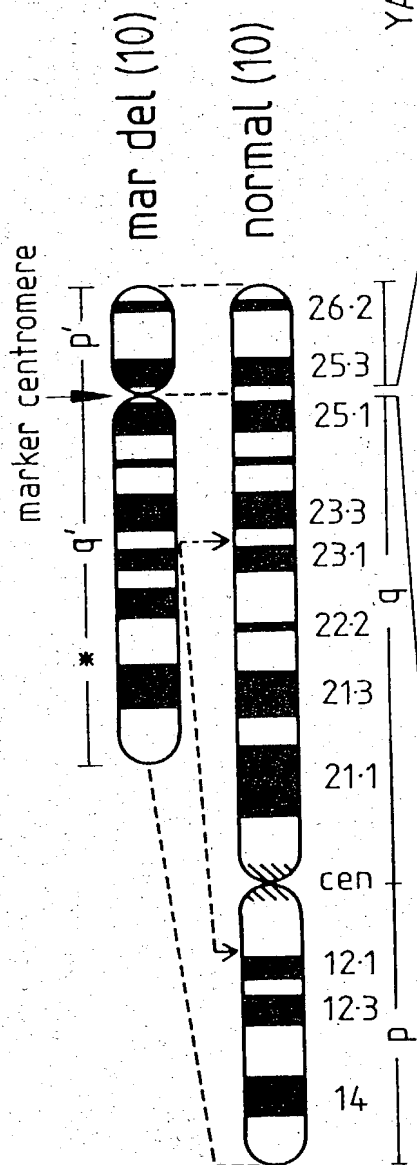
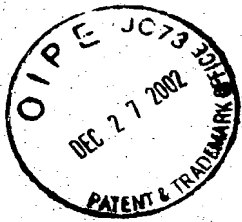


FIG. 1A

FIG. 1B

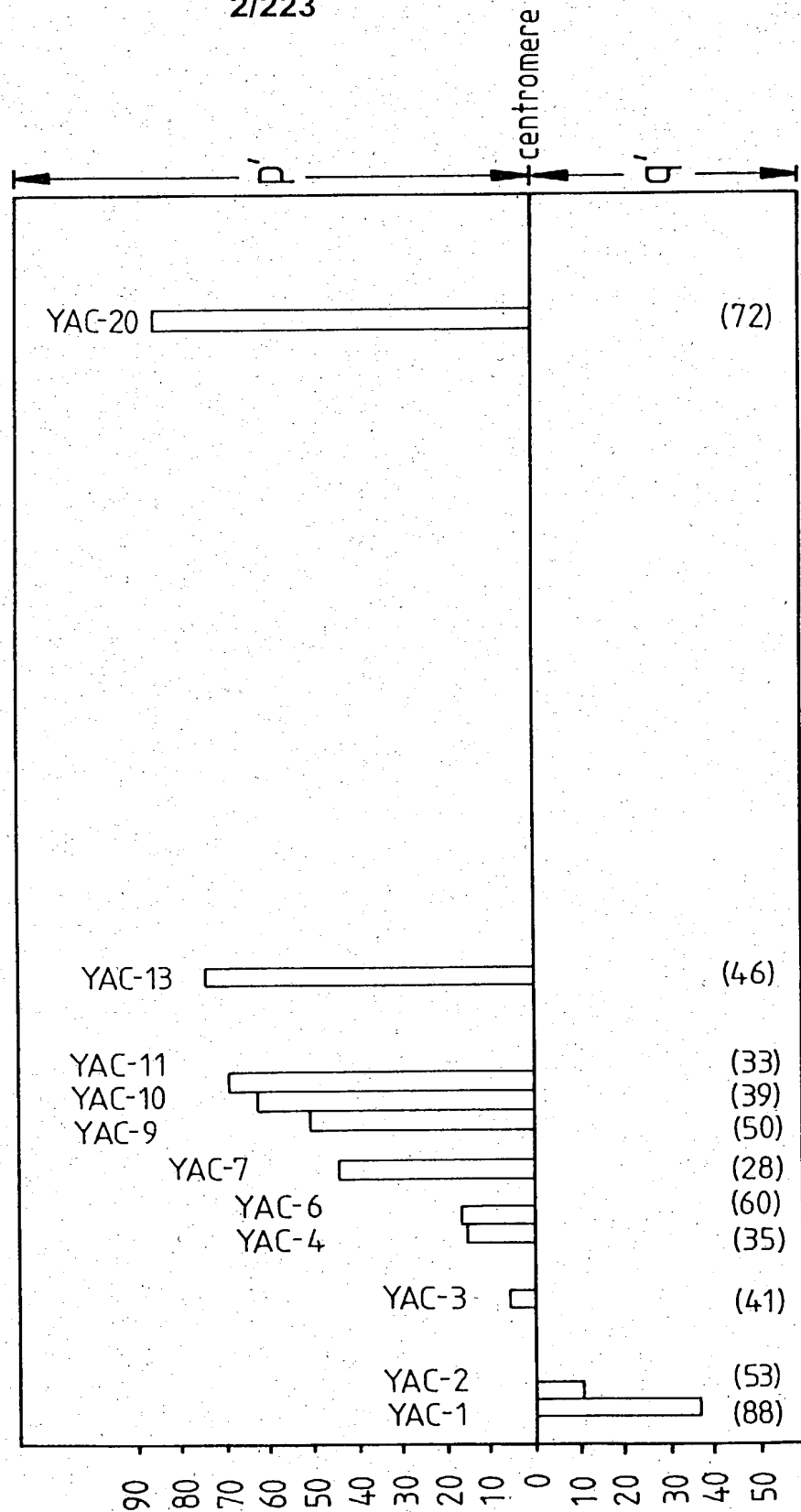
YAC	Address
39	924-H-11
26	817-E-5
42	947-H-9
45	965-A-3
23	795-H-5
30	846-A-7
31	855-F-1
42	944-O-3
26	818-F-7
28	836-H-11
31	855-A-7
23	789-G-8
41	935-F-11,12
20	770-G-11
28	830-C-2
31	858-H-7
40	926-A-4
23	791-H-10
36	895-E-12
34	880-C-3
27	823-A-8
45	965-F-4



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FIG. 1C





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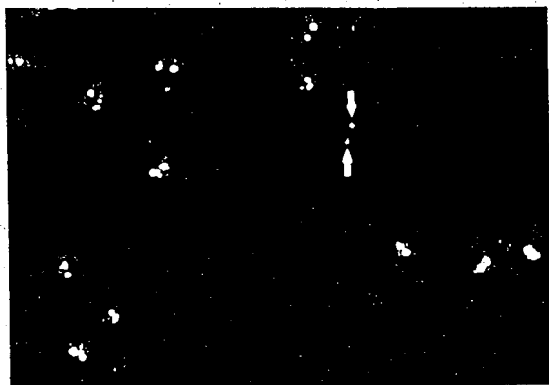


FIG. 2A(1)

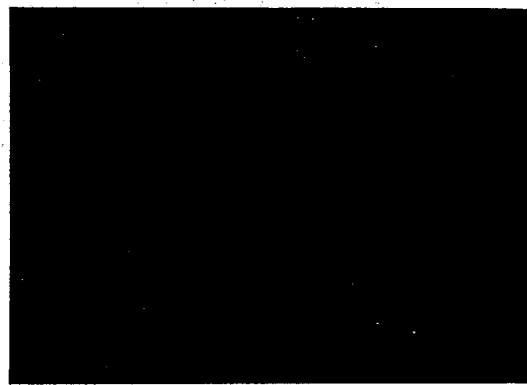


FIG. 2A(2)

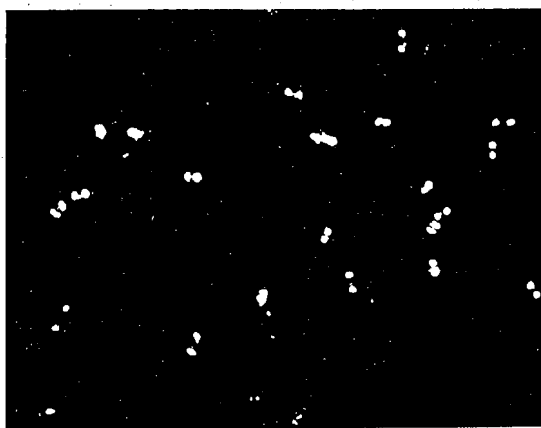
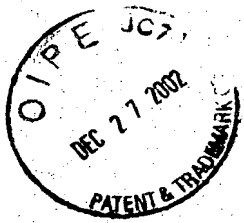


FIG. 2B(1)



FIG. 2B(2)



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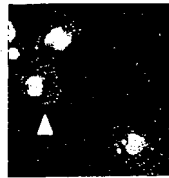


FIG. 2C(a)

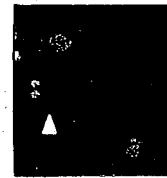


FIG. 2C(b)

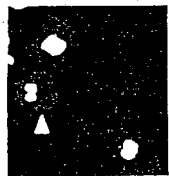


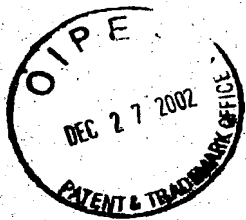
FIG. 2C(c)



FIG. 2C(d)



FIG. 2C(e)



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FIG. 3A(e1)



FIG. 3A(e2)



FIG. 3A(f1)



FIG. 3A(f2)

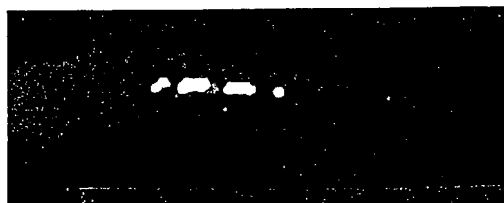


FIG. 3B(1)



FIG. 3B(2)

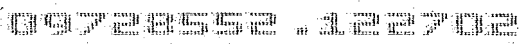
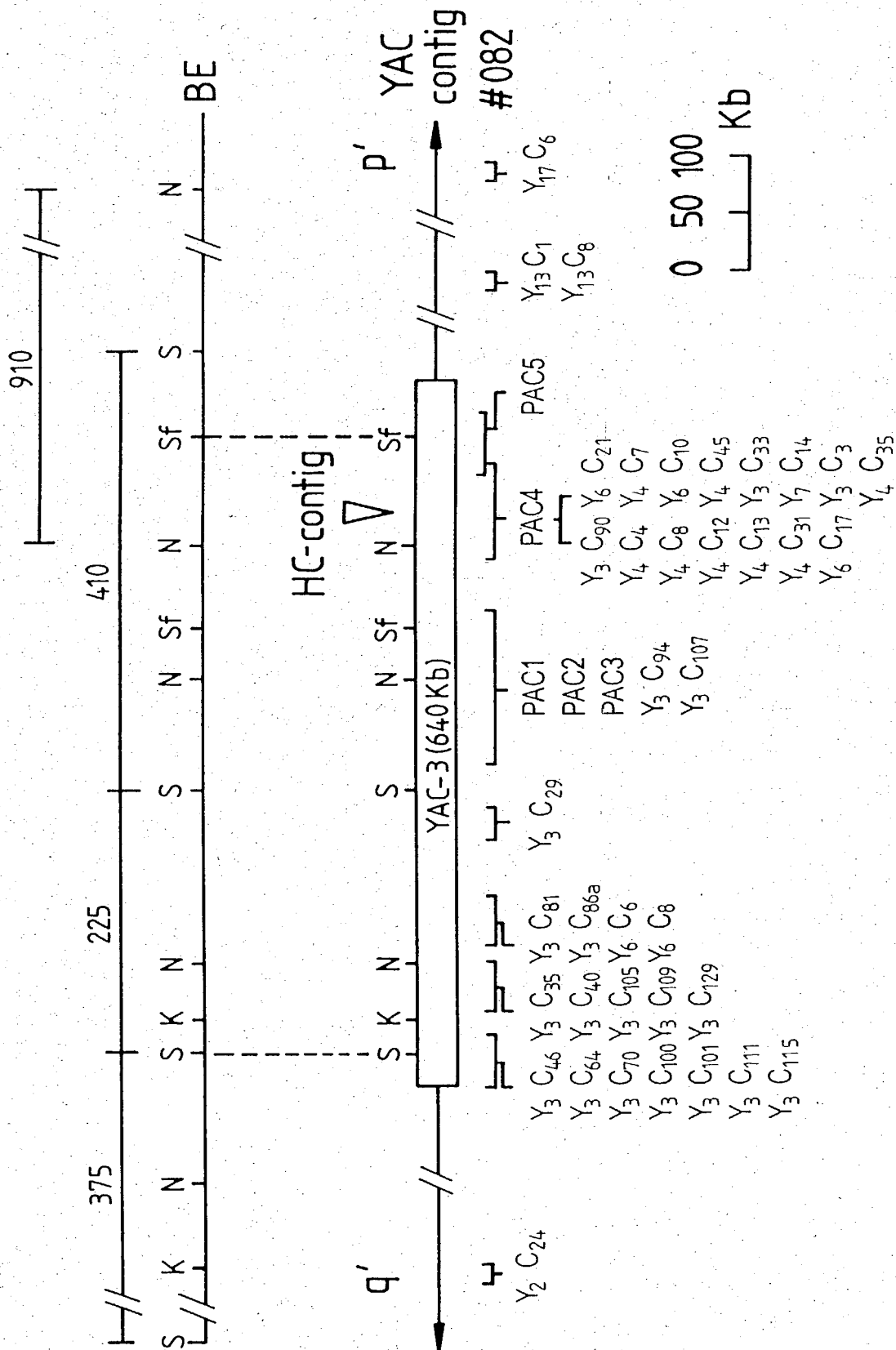
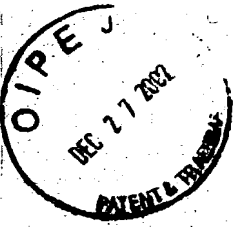


FIG. 4A





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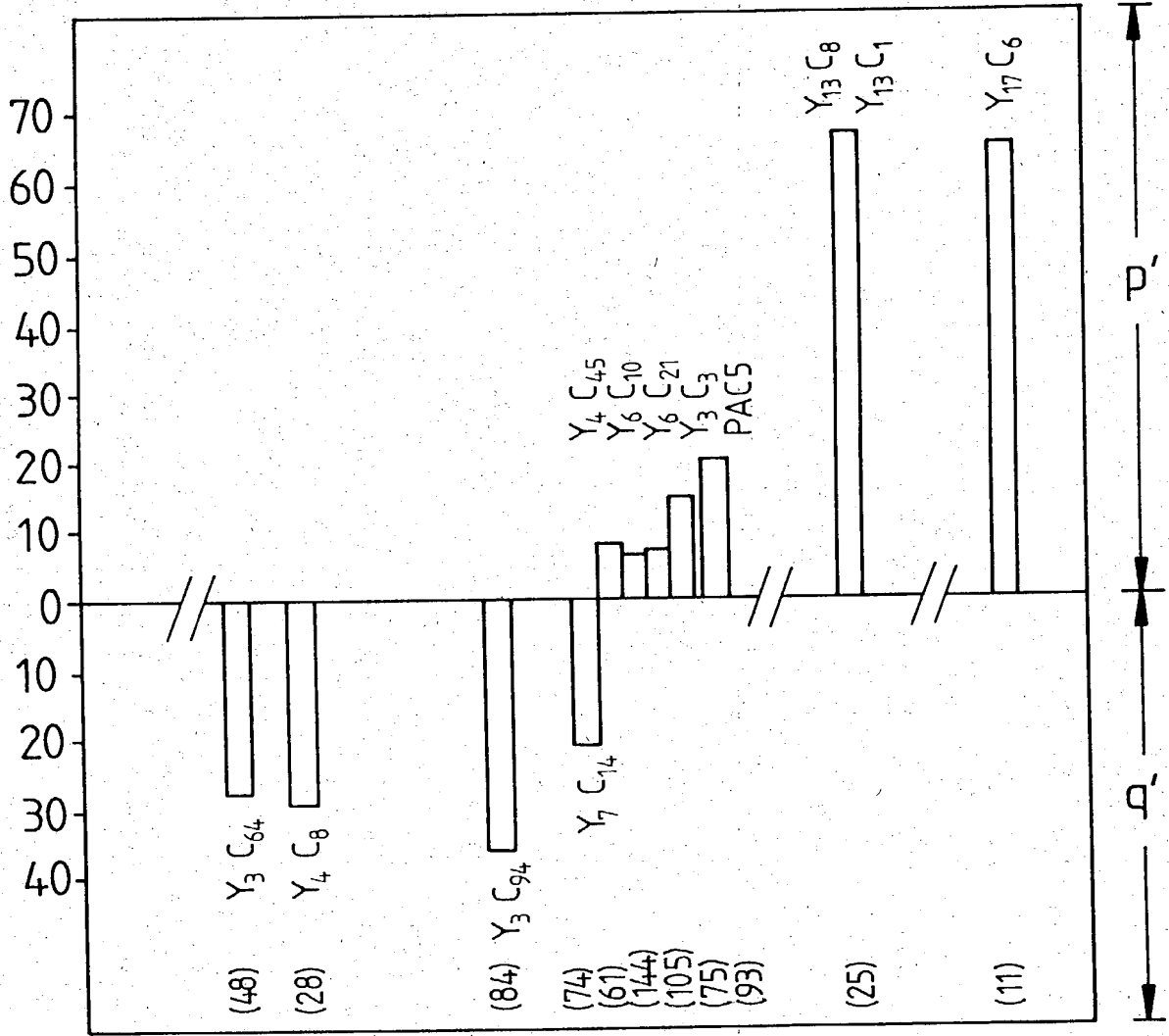


FIG. 4B

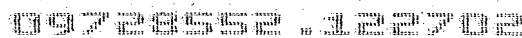
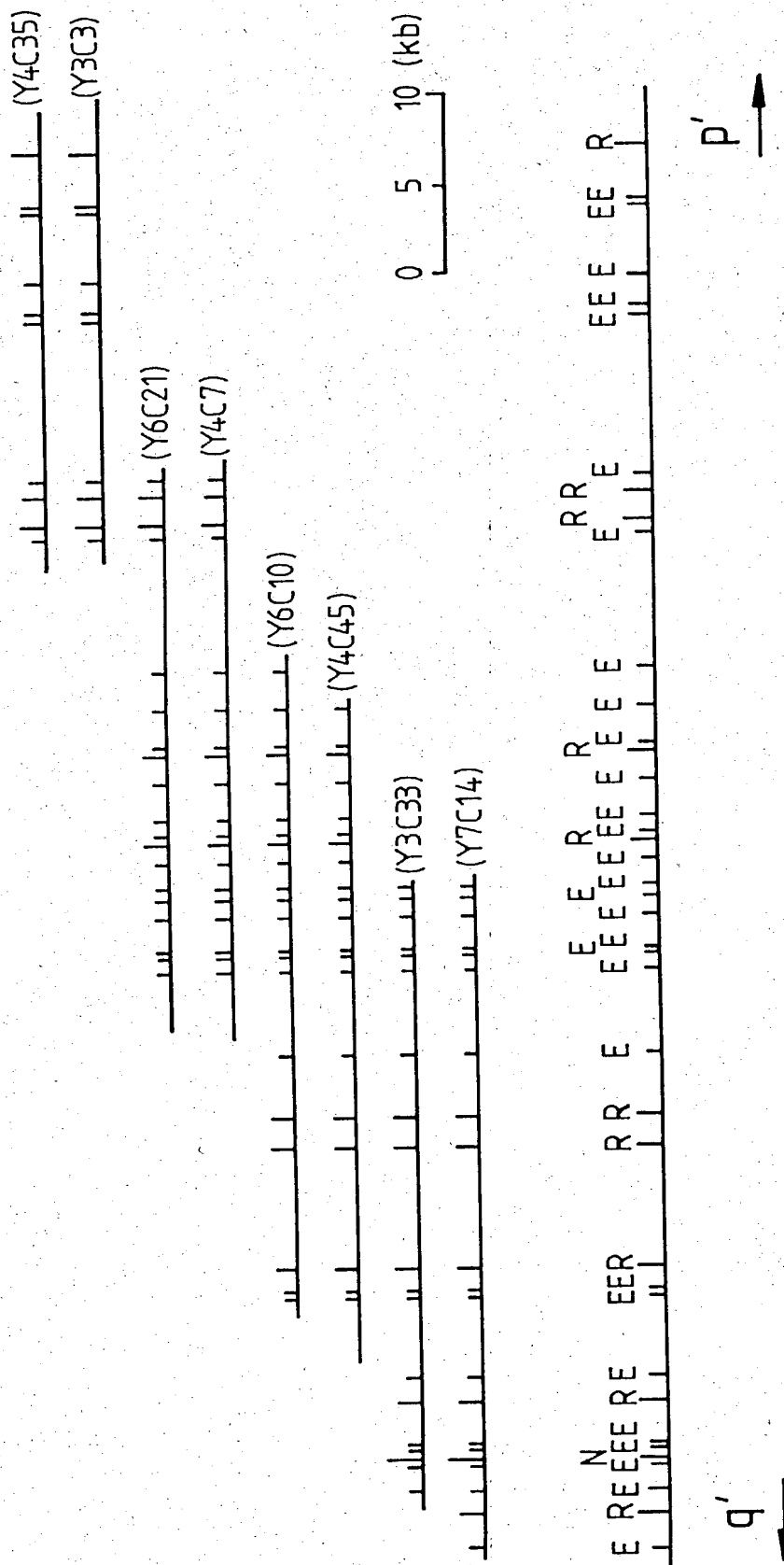


FIG. 4C



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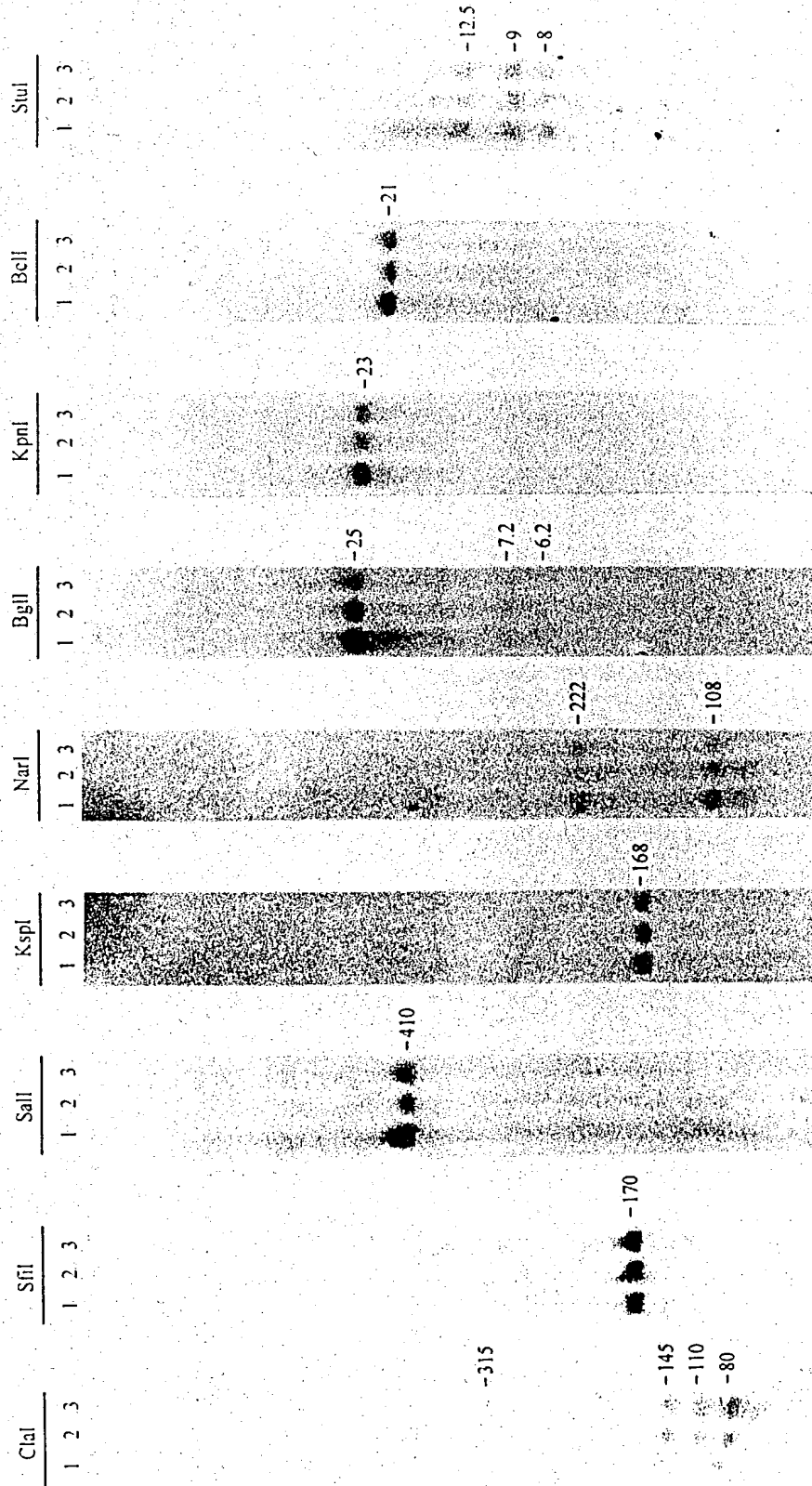
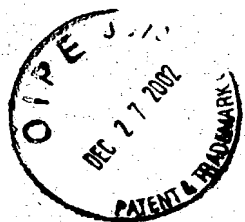


FIG. 5A



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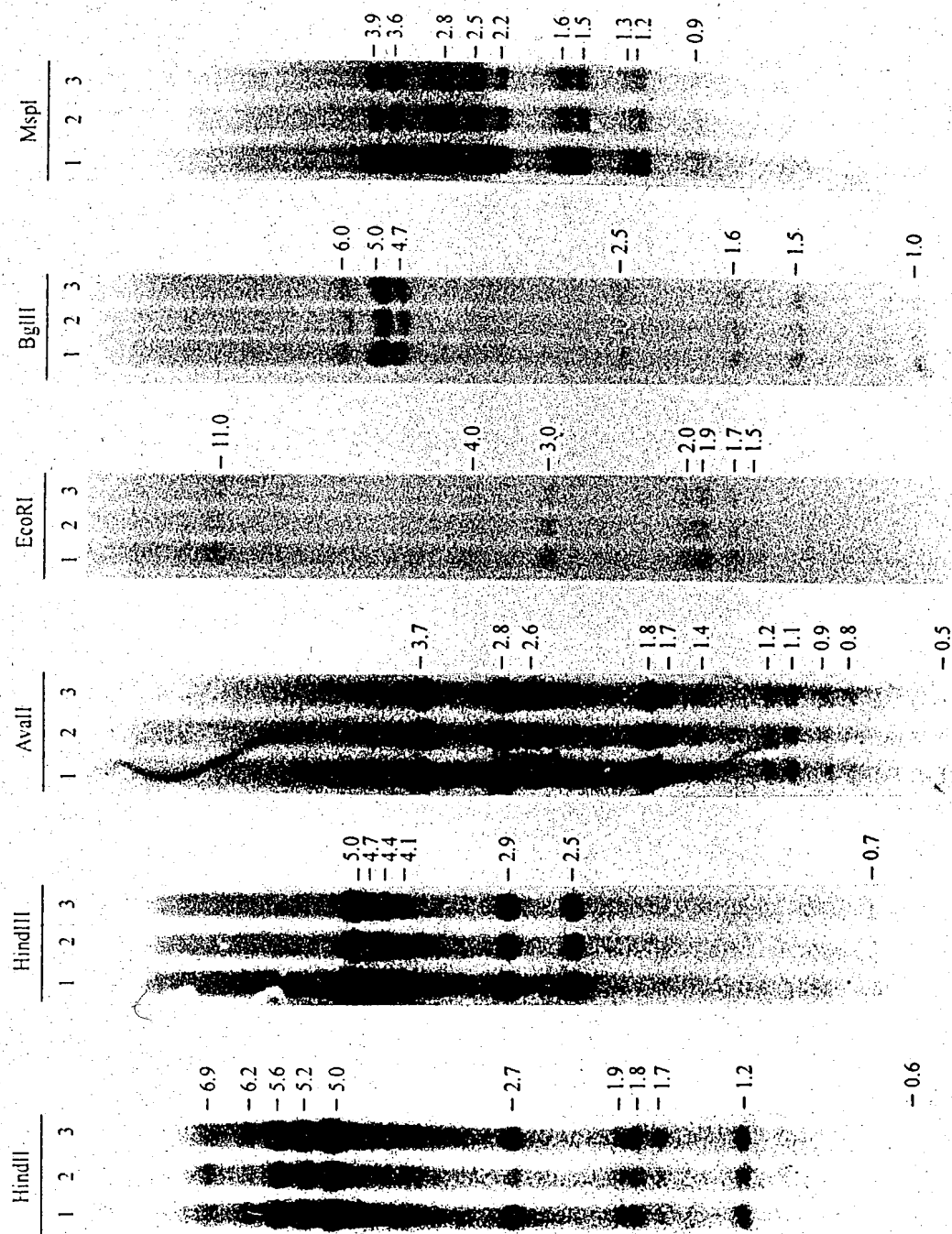
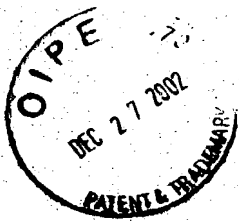


FIG. 5B



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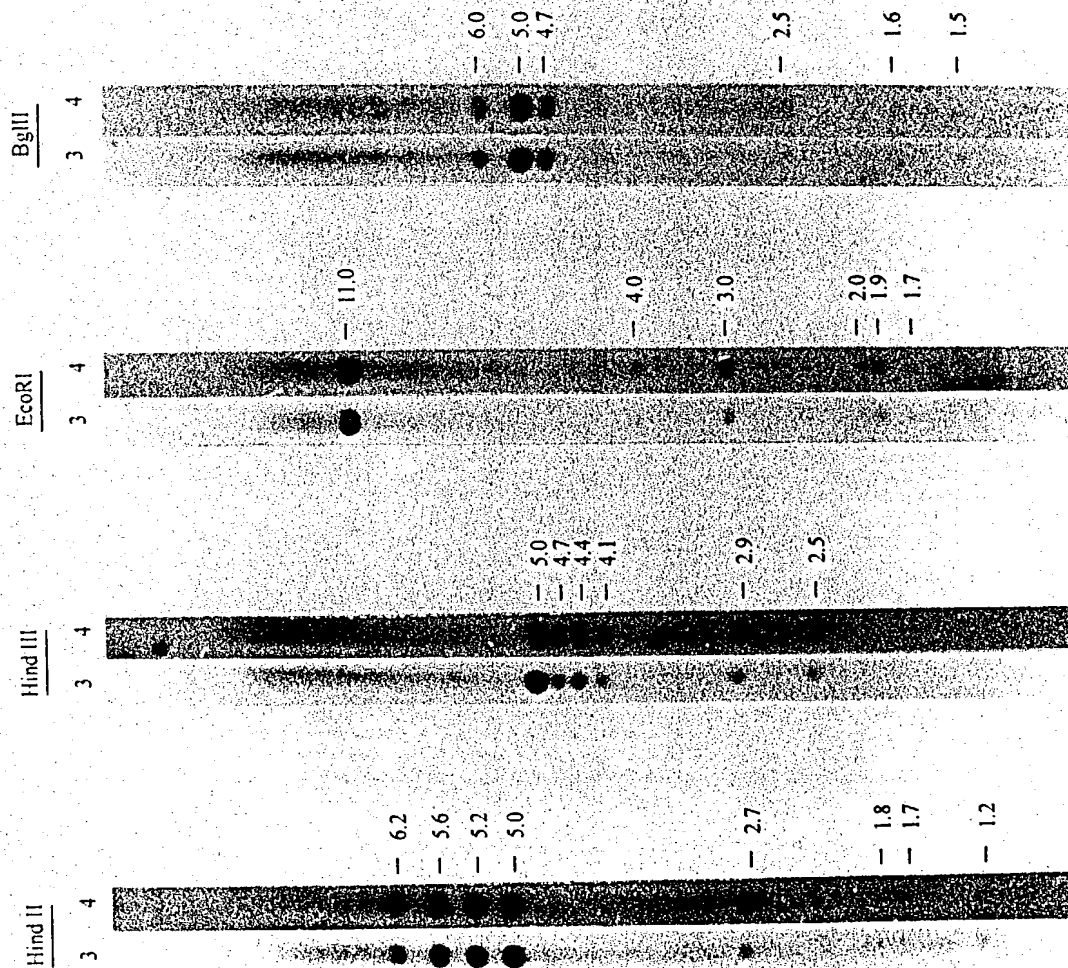
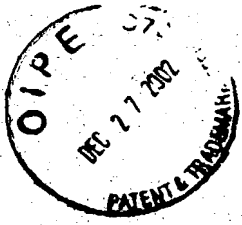


FIG. 5C



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GAATTCTCCT GCCTCAGCCT CCCAAGTAGC TGAGGTTACA GTGCCAGCC ACCACGTCCA
GCTAATTTTT GTATTTTAGT AGAGACGGGG TTTCACCGTG TTGCCAGGC TGGTATCAAA
CTCCTGACCT CAAGTGATCT GCCTGCCCTCA GCCTCCCAA ATGCTAGGAT TACAGGTGTG
AGTCACCGCA CCCAGCCCTT CTTTCAGTTC TATCACCTCT TTTTGCTATA TTTGTATGAG
AGCTTTATTA TTAGGGGCAC ATACATTAA AATTGTTATG TCTTATTGAT AGATTGATCT
GTCATTATGA ATGCTGTGAT TCATTCCCTG ATAGTATTTC TTTTCTCTAAA TATTTTCTG
AATGTGCTG CTATTAAACAT AGCCACTCTG GCTTTTAAA ATTAGTATT TTAGGTATA
TATTTTCCCT TTTTTTTTTT TTTAAGTTTT AGATGTTATG TTTCCCTTATA CTTAAAGTGG
GTGTCTTATA GGCAGCATAT ATCTGGGTCT TGATGTATTA TTTAATCTGA TAATCTCAAC
CTTTTGTG GAGTGTTTAG GCCATTACA TTTAGTGTA TATAGACAT GTTTGATTT
GCTATACCAT CTTTTCATTT GTTTTATATG TGAGCCATCT TTTTCATTGT CTTTTTCAT

A _____ A

FIG. 6

A_____

CTTTGACCAT TTCTTTTAGT ACTGAATACT TTTTTTGTA TTTATTATAT CTATTGGCTT
TTTAGTTATA CCTCTTAAAA TTTTTTTTC TGTTTTATGT AGGATTATA ATATACATCT
TTAACTTATC ACAGATTACC TTCAAATAGT ATTTTACCAG CTCAAAGTGTA ATGTAGAAAC
CTTACAAGAG TATATTTTCA TTTCTGTCTC CTAATTTTAA TGCTATGTCT ATAATACATT
AGGTTTGTG TTGTTTGTTT TTACCTTATT GCTGTTGGCT GGGGTCAGCA AACATTTTCT
GTAAAGGGCT AGATAGTACA GGCATACCTT GGAGATACTG TGGGTTTGGT TCCATACCAC
CACAAATAA CAAATATGCA AGAAGTGGAT ATCACAAATA AGTGAGTCAC ACAAGTCCTT
TGGCTTCCCA GTGCATATAA AAGTTTGTCT TATACTACAC TGTAGTCTGT TAAGTGTCGA
ATAGTGTTAT GTCATAAAAA ACACATACCT TAATTTTAAA ATGCTTTATT ACTAAAAAAT
GCTAACATC ATTTGAGCAT TCAGTGAGTT GTAATCTTTT TGCTGGTGGA AGGCTTTTTC
TTATTGATGA CTGATCGGGG GTCAGGTGCT GAAGCTTAGG GTGGCTGTGG CAGTTTCTTA

_____ **B**

FIG. 6A(1)



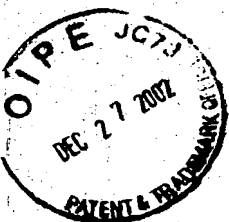
B**B**

AAACAACAGT GAAGATTGCA ATATCAGTTG ACTCTTCCTT TCATGAAAGA TTTCTCTCTA
GTGTGTGATG CTTTTTGATA GCATTTTATG CACAGTAGAA CTTCTTTGAA AATTGGATCA
ATCCTCTCAA ACCCTGCTCT GCTTTAACAA CCTAAGTTAA TATAATATTC TGAATCCATT
GTTGTCATTT CAACAATTTT CACAGTGTCT TCACCAGGAG TAGATTCCAT CTCATTTCTT
GAGATGGAAT CTTTGCTCAT CCATAAGAAG AAATTCCTCA TCTGTTCAAG TTTTATCATG
AGATTGCAGC AATACAGTCA TGTCTTCAGG CCTCACTCA CTTTAAATTC CAGTCTCTTT
GCTGTTTCTA CCACATCTGT GGTTCCTTCC TCCATTGAAG TCTTGAACCT CTCCAAGTCA
TCCATGAGGG TTGGAATCGA CTTCTTCCAA ATTCTGTGA ATATTATAT TTTGACCTCC
CATGAATCAT GAATGTTCTT AATGGCACCT GGAATGGTGA ATCCTTTCCA AAAGGTTTTC
AATTACTTA GTCCAGATCC ATCCATCCAG AGGATCCACT TTCAATGCCA GTATAGCCT
TATGGAATGT ATTTCTTCAA TAATAAGGCT TGAAAGTTGA AATTACTCCT TGATCCATT

C**C****FIG. 6A(2)**

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C

TCTGCAAAAT AGATGTTGTG TTAGCAGGCA TGAAAGCAAC ATTAATCTTT TTGTACATGT
CCATCAGAGC TCTTGGGTGA CCAGGTATAT TGCCAGTGAG CAGTAATACT TTGAAAGGAA
TTATTTTCT TAGCAGTAGG TCTCAACAAT GGGCTTAAAA TATTGGTCC ACCATTCTGT
AAACTGATGT GCTGTCATCT AAACCTTGTA GTTTCATTTA TAGAGCACAG GCAGAGTAGA
TGTAGCATAA TTCTTAAGGG ACTTAGGATT TTCAGAAATGG TAAATGAACA TTGGCATCAA
TTTAAATCAC TAGCTGTATT AGCCCCCAAC AAGAGAGTCA GCCTATTTTT TGAAGCTTTG
AAGCCAAGCG TCGACTTCTC CTCCCCTGGTT ACAAAAGTCC TAAATGGCAT CTTCCTCCAA
TATAAGGCTG TTTTATCTAC ATTGAAAATC TGTGTTTAG TGAGCCACC TTCATCAATG
ATACTATCTA GATCTCTTGG ATAACCTGTG CAGCTTCTAC ATCAGCATTT GCTACTTCAC
CTTGTA CTCT TATGTAATGG AGTGGCATCT TTCCCTCGTAC CTCATGAACC AACCTCTGCT
AGCTTCCAAC TTTTCTCTG TAGTTTCCCTC GCCTCTCTCA GCCTTCATAG ACTTGAGGAT

D

FIG. 6A(3)

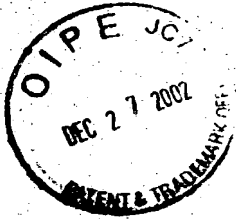


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D _____
AGTTAGAGAC TTGCTTTGGA TTAGATTTTG GCTTCAGGAA ATGTTGTGGC TGGTTTGATC
TTCTATCCAG ACCACTAAAA CTTTATCCAT ATCAGCAATA AGGCTGTTTT GCTTTCCTAT
TATTTGTGTG TTCACTGGAG TAGCACTTTT AATTGCTTC AAGATATATT TCTTTGCATT
CACAACTGG CTGACTGGTG CAAGAGGCCT AGCTTTCAGA CTATCTTGGC TTTTGACATG
CCTTCCCTCAC TAAGCTTAAT CATTCTAGC TTTTGATTTA AAATGAGAGA TGAGGCCAG
GCACAGTGGC AGGCACAGTG GCATATGCCT GTAATCCAA CACATTAAGA GGCCAAGTG
GGAGGATTGC TTGAACCCAG GAGGTGGAGG TTGTAGAGAT CACACCACCTG CATTCCTGCC
TGGATGACAG AGCAAGACCT TTCTCAAAAT AAAATGAGAG GTGTGCTTCT TCTTTTGT
TGAGCCCATTA GAAGCCATAG TATGATTTT AATTGGCCTA ATTTCAATAC TGTGTGTCT
CAGAGAATAG GGAGTCTGA AGAGAGGGAG AGAGGTGGG GAATGGCTGG TCAGTGGAGC
AGTCAGAAC CACATAACAC TAATAAATTG TTTGCTGTCT TATATGGATG TGGTTTGTA
_____ **E**

FIG. 6A(4)

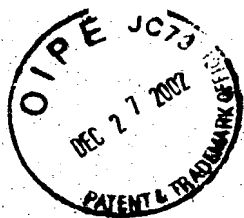


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E _____
TGCCCCCAA CAATTACAAT AGTTACAGCA AATATCACTG ATCACAGATC ACCATAACAG
ATATAAGAAT CATGGCAAAG TTTGAAAATAT TCTTGAGAAT TAGCAAAGTG TGACACAGAG
AAACAAAGTG AGCACATGCC GTTGGAAAAA ATTGGTGTG ATAGACTTGC TCCATCGCAA
GTTTGCCATA CGCCTTCAAT TTATAAAAAA CACAATATCT AGGAAGTTCA ATAAAGTGAA
GTGCAATAAG ATGAAGTATG CCTGTAAAAA TTTTCAGGCTT TCCAGACCAT AGGGTTTCTG
TTGCAACTGC TCACCTCTGC CATTATAGCA TGAAGCAGC TATAGAAAAT ATACATAAAT
GAGGCCTGTA ATCCCAACAC TTTGGGAGCC CAAGGTGGAT GGATCACTTG AGGTCAGGAA
TTCGAGACCA GCTTGGCCAA CATGGCAAAA CCCCGTCTCT ACTAAAAATA CAAAAATGAG
CCAGGACTAC GCATGCCCTGT AGTCCAGCT ACTTGGGAGG CTGAGGCAGG AGAATCTCTT
GAACCCGGGA AGGGGAGGTT ACAGTGAGCC AAGATTGTGC CACTGCATC CAGCCTGGGC
AACAGAGTGA GACTGTCTCA CAAAAAAA AAAAGGAAA GAAAATACAC ATAAATGAAT
F _____

FIG. 6A(5)



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F _____ **F**

GTATGTGGCT GTGTACCAGT ATATCCTCAT GCTCTAGCTT GCCAACCCCTT GCTTTACACT

GTCAGTTACC TTCTAAAGAG ATTAAAAATC ATAACAATAT CTATTACGTT TATTCACATC

CTAGTGTGAT TTCTTCCCTTA TGTAGAATCA AATTTCATTC TGGTATCATA TTTCTTCTTT

CTAAATAAAT TCCTTTAATA TTTTTTATAG CACAGGTCTA ATAGCAATGC ATTATGCAAT

TCATTGCTAT TAGACCTGTG CTATAAAATA GCAATGAATT ATGTCAGTTT TTATTGTCT

GAAAAAGTTT TTTGTTTTTG AAATATACTT TTGCTGGGTA TATAAATCCA TGTTCATAA

CTTCTCTTTT CTTCAGCACT TTAATGAAGT CACTCAGTTA TCTTCTGGCT TGTATAGTTT

CTCTGGCTGC CTTCAAGATT TTTTCATTGT CTTTAAATTT TAGCAGTTTG ATGTGTCTAG

GAGTGATTTT CTTTGATTT ATCCTTTTGG GGGCCCTCTTA ATTTCTTTGA TCCTTTTTTT

CTTTTTTTTT TTTTTTTAAT CAGTTTTTGGT CTGCTCCTC AAGTGGGCTG AAAAAAAG

AAAAATAAAA TCATAGTTTA AAAAATAAT TTTGGAAAT TTTCAGCTAT CATTCTTCA

G _____ **G**

FIG. 6A(6)

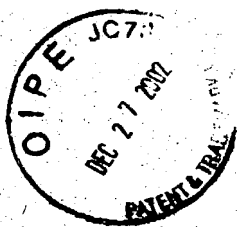


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G
AATATTATC CTACTCTATG CTCCCCCTCCT CCCCTTTCCT TCTGTGACTC AAATTACAGG
TATATTTAAC CATTTTATTT GTTCACGGCA CTTGGATGCT CTGCTTTCTT ATTTTGTGTC
TTTCATTTTG GATAATTTCT ACTGACCCTAT CTTCAAGTTC ACTGATTCTT TTCTCAGTCA
TATCTAGTGT GCTCAACGCC TGTGAAGAA ATCCTTTGTC TTAAATATCA TGTTTTTTAT
TTCTAGCATT TTCATGTAAC TCTTTGTTCT GGTTCCTCCT TCTCTACTCA CTTTTTTTTT
TTTTTTTTTT TTTTTTTGAG ACAGAGTCTC GCTCTGTCAC CCAGGCTGGA GTGTAGTGGC
GCGATCTCGG CTCAC TGCAA CTTCGGTCCC CTGGGTCAA GTGATTCTCC TGCCTCATCC
TCCCGAGTAG TTGGAATTAC AGGTGCCCCAC CACCGTGGCT GGCTAATTTT TGTATTTTTT
TAGTGGAAC AGGTTTTCAC CATGTTGGCC AGGCTGGTCT TGAATTCCCTG ACCTCAGGTG
ATCCACCTGC CTCAGCCCTCC CCAATTGCTG AAATTACTGG CATGAGGCAC TGCACCCAGC
TCTGCTGACA TTTTTTATCT TTTGCTGCAT TTTGCTTACC TTTTCCATGA AATCCTTTAA
H

FIG. 6A(7)

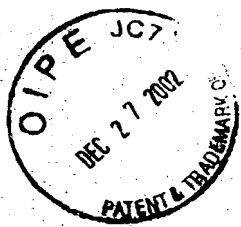


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H _____ H
CATAGTAGTC ATAGTTACTT TCAATTCCCTT GTCTGACAGT TCTGACATTC AAGCTAGGT
CTGTTAATAG CTTGTGAGT CTGTTAACAG CTTTTTTTCA TTCTTGTCTG TGTGTTTTGT
ATTTCTTGAT TGTATGCCAA ATATTGCCCTG TAAATAAAGT TTAGATAAGT CATACTTCTA
TCCAGAAATA GGCACATTTT TTGTGTCCAG TCATTAGTGT GGAGGGAGGT TGGGGCAGTC
TAGTCAGTGG CTGAACTAGG TTTGGATTG TTGATGCTAT ACTTAGAATG CACCAGACTT
CCATTCAC TG CAAGAGTGG CTGCTGCCGT TTGTGATTCA TGTGAGGCCT GAATTGTGGG
TTTTTCCCTA GTGTGTCCCT CCATGCTCAG ATTTCAGCA GTCTTCATAT CTGTGCCACA
GAAGGAATCT GACCCATGCT CTTTTTGACC TCCCCAAGTG ATCAACTGTT GCTTGTATA
GCTTGTGATG GAGTAAGAGG GTGTTTTTTT AGTTTTCATC CTCCAGCCTT GGTCTTGGGC
CCTGAGCTCC TAGACTCCAG GAGTGGATGG AATCCAGTGA TTTCTCAGTA ATTCAGCCCC
TTCTCCAGTA GTGCAGATC TCTGCTTTGT ATCAGTGCAA GATCCTGGC TGAGCTCAT
_____ I

FIG. 6A(8)

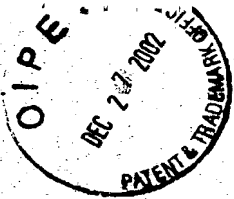


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TTCTGCCCTT CCTCGAGTGG CAGACAGCTC TTGCTTTCAC CCTTCTACCA AAGGCAGTGC
ATCTTTTCTT GGGCCTCTCC CCATTGAACT TATGACTTTC ACATAAGAGA AGGGCTCATG
TATCAGAGAA TTCTGTGACT TTGTGCCACA TACAGAGTCT CTCAGTTCTC TTGCCCTGCC
CCAGTCTTTT TTGTGAGCAC CTAGTAGAGA CCCTTGGAGA AGAGCAAGGA AGCGAGTATG
GACTTCTTTT GTGTCTGTGG ATTGCTTTGT TTCTCAACTG CTACTCTTGG ACTTTAAGAA
TTCATTAAAA TTTCAGCTGT TTCTTTTAT TCTTTTGT TTTCTTTTTT TTTTTTTTTT
TTTTTAGATG GAGTCTTGCT CTGTTGCCCA GGCTGGAGTG CAGTGGTGTG ATCTTGGCTT
GCTGCAACCT CCGCCTCCCG GGTCAAGCG ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG
GGATTACAGG TGCCCACCAC CACACCTGGC TAATTTTGT ATTTTAGTA GACACAGGGT
TTCACCATTT TGGTCAGGCT TGTCTCAAAC TCCTGACCTC ATGATCTGCC CGCCTCAGCC
TCCCAAAGTG CTGGATTAC AGGCATGAGC CACCGGCCA GGCCTCAGCT GTTCTCTTTT

FIG. 6A(9)



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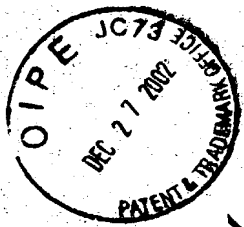
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J _____ J

TACCTGCTGG GATGGCTAGT TTTCTGTGTC AACTTGACTG GGCCATGGGA TGTCAGATA
TGTAATTAAA CAGTATTCTTCT GGGTGTCTTCT GTGAGGGTGT CTCAGAAGA GATTGCATT
TGAATTGGTG AACTAAGTAA AGCAGAGGGC CCTGTCTAGT AGGGTAGGC ATCATCCAGT
CTGTTGAGGA CTTGAATAGA ACAAAGGCA GGGAAGGTT GGAATTGCC CCTCTCTGCT
TGAGCTGAGA CATCTATCCT GCCCTTGGCA CTCCTGGTTC TCAGGGGTTT AGACCTGGAT
TCCTGGTCTC CACCTTGCCC ATGGCAGACT GTGGGACTTC TCAGCCTCCT ATCTAATTAA
TAAATCTCTT CACACACACA CACACACACA CACACACACA CACACACACA
CCCTATGTAT CCTTCTGTTT CTCTGCAGAA CCATATCTAA TACACCTGCT TTTATGACGA
TTACCTATCG ATTCTGTATT CTGCCAAAAC TGAAAACAGT TCATTTTTC ATCTCTTCTC
AGAGAGGCTT GTCAGCCATT AGTTCTCTGA TGGGCTCAAG AAGTTATGCA GTTTTITTTT
TCTCACTGTT AGGATGGAAT TGATATTCTG TTGAAACTTT CTATACCTAA GTGAAACTT

K _____ K

FIG. 6A(10)



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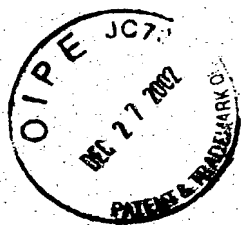
K

K

GTTTGAGGT TATTTTCTCT ACTTACTTTT GCTGGAATG GAACACTCTG TATCTAGTTA
AGACACATAA ACTGACTTGT GATACCATAA TGTTGTGTTG AATTTATAT TCTTAGAAAA
TCATCTGTCA AGGTGTTAAC TAATGGCAA GCATTTAATA AATCAGCATT CATGTATTCA
GGTGCTCTGA ATTAICTGAC TTTTAAATTC TTACTTTATA AATGAGAAAA TTGGGGCATG
GAAAAGTTAA CTCCTCTAAC CCCGAATTAT TACATTATTA AGGACAGGAC TTAGAGGCCA
GATATCTTAA GTCATTAAATA TTCTTTGGCT CACAGAATTG GCAGTATAAC CTAAAGGTAA
TAACTAGGTG ATTTTCTTTT ATATCAATTA AATATGTCAG TTTTCAAATA TTCATAAGTA
CCTACTGTGC AGGGAAGAA CATGCCATAC AAAAGATGTA GTCCAGGCCT TTAAGAAACT
TTCATTTAAT GGGAACCTCA GAAAGTGACA TATAAGGAG GAAGTAGCAG TATGGTACAA
GATAATACAT ACATATCAGT GAATGATATT GCCAAAAAGT GCTATTGATA GAGAAATAAT
TCATTTCTGC AACAGCTGC TGATCTCCTA CTGAAAAACAG AGGAGGGAGA ACAGGACGCC

L

FIG. 6A(11)



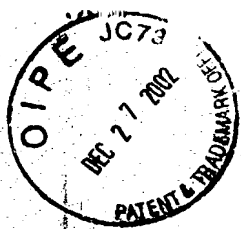
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L
TCGTGGTCAG GATAGAAGAG AAAGACCCTTG AGTTGAGCCT TGAACAGTAT TTAATATTCA
AAAGGTTAAG AGAGGAGAGC AATTGAGGAG GGGAGAAATAG TTCCAGCACA AATGATGGTG
TACAAGATGA ACACAGTCAG TAAAGAGCAG ACTGGTCTGG ATGGAGAGGA GGATTTCAT
CATTTGGGAT TACGTCATTT AGACCCTTGA AAGCCAGGAT TGAGTAAAGC CACAGTGAAG
CGACTGGCTC GTATGGAAGC TTTATTTTAA GAAGATTAA CTGGTAGTGA CATGTGCCAA
AAACTGAATA GGTAGAAATG AGATGCAGAG AGCCAGTTA GAACTAAGTC TGGTGCAGTA
ATGCAGGATT GAGGCAATAA ACACCAAAT ACAGTATCAC CAGATAATGG ATGTTTGAAC
GGACGGTTA AAGGAAAATT GATGGTATTT GGTAATTTAT TAGATAATCC AGGGCCATGG
AATGAGAGGG GAAAATGACT AACCATAGTC ATCAAATGGT TTTTCTTAAT GAATCTGAAT
TTTGGTGTA GAGCAACATT TTCTTAGGCC TTGCCTAGTT GGTACAGCTG ACTATGATAA
TGA CTGCTAC CATGCTTGTT CCTCTTTTAG CAGCTGTGAG TCCCCCACC GCCAAACAAT
M

M

FIG. 6A(12)

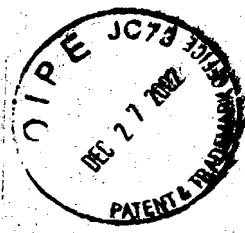


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M _____ **M**
GAGCCTCTTG AAAAGGACGA TGCCTTTTCA CTTCTCTCCA AGTGCTTGGC AAATAGGAGG
CCTTTTGAAG TTACTTTATA GTTAGGGGTT CCCAGTGAGT ATTTGAAATA TTAAGTCATG
CCCGTGTTG ACAGCATGGC CCTACTGCTC ATCATCAGCT ATTAACCTTA GGCAAGTTAA
TGAACCTTTC TAAGCCCCAG TCTACTCAT TATAAAGTGG GATTATTAAT AATGCTACT
TCATAAAATT ATGAAGCCTG AGTTAGGTCA TTCAGATAGT GTTTAGTCTG ATTCTTCGAA
CCTAGTAAAC AGTCAGTAAA CAGAAGCAA TGCCACATGC CTGATTATA TCCAAGGGGA
GAAAGGTAAA AGTGAAATTT TCATGATTTA TGGATTCAA TTATACATTT CAAAGATGCT
TTATAAGCTA TTGTTTGGT AAGAAGAATT GAGCTGAAAC AGAATTTTCT GACAGCAGTG
ATTATTAAAT GGTGAAATAG GCTATTGATG TCTTTAGAGG ATATAGATGT TCACCTTTTG
CATATAAGTG CACAAAATT CACTAAGTAG ATATGTCTGT CTACACAGAG AGAGAGAGCG
TGAGAGCATT AAAGTTAGTA AACATCCCC TCGCTTTTTT TTTTGTGAGA CAGGGTCTTA
_____ **N**

FIG. 6A(13)

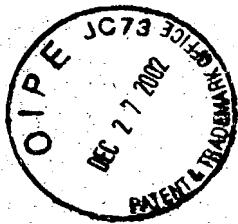


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N
CTCTGTTGCC TAGGCTGGAG TGCAGTGGTG CAATCGTGGC TCACTGCAGT CTCAACATCC
TGGGCTCAAG CGATCCTCTC GCTCAGCCTC CTGAGTAGCT GAGGTGTGCA CCACCACACC
CGGCTAATTT TTAATTTTT TTATTGTAAA GTGAGGTTT CACCATGTTG CCCAGGTCTC
AAACTCCTGA GCTCAAGCAA TCTGCTCACT TCAGCCTCCA AAAATGCTGG GATTACAGGC
GTGAGCCACC ACGCCTGGCC AGTAAACCCC ATTCAATTAC ATCATCTTAC TTGTCCCTCC
AAAATCCTGC AAAGTAGGTA GGTTCCTGCT TTATTGTTA TTAGGTGAA GAACTTGAAG
TGGTGTGAG GAATAGGTGT TTTGCCAAGA GTCACGCAGC TGGAGTGGCA GAGCTGTATA
CTCTTCTGAT TCCACCAACG CTGTTTACAT CACATCTGGA GAAAAGTGCT CTGAGGCACA
GATGTTTAGT GGGAGGGATG AGACACAGGC TGCAATGCCT AAAGATAATC GGGAATAAAA
GCAGAAAACA AGACGTTTGT TTCTGTATAA ATGAGACAGA AAATAAGCGG TTTGTGTGTT
GGGATTGAGC ACTTGAGAA GTGGGGAGCG ATTGATTG GGTGAGACTG CTCCTGGAAT
O

FIG. 6A(14)



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O _____ O
GCTGCATCTG GTTCTGGACT ACTCATTACT AGGCTTATAG AAAC TAGCTG GAGGAGGTTT
AAAGAAAAGC TCCAAAATGA TTAGCGGGCT GACGGGATTG ATTTATAAGA AATATTAAAA
GAATTAAATG TGTATAGCTC AGCTAAGCAA AGATGAAAAGA GACCAGCTAA ATGTATACAA
ATATCTGAAA CGTGCAAACT TTAAAAAGAG AGATTAAATTA TTAAACATGA TACACGGGGG
CACAAATATGC AGTCACAGGA TGAAAATTTC AGCTGAGTAT CTAGAAGAAT TCCCCGATAG
TGAATCTGTT AAGCTGTCT GTAGTGTGGC CTTTCCCTGG AGAGGCAATA GAAATTTCAA
GTCTTACGAT TTAAAAAGTT TCTTGGAAC TAGTATTAG ATGATGTTAG AGAATTATTA
TTAATTGGT CAGGTATGAT AATGGTATTG TAGTTCTATA AGAAAAATTG TATTTTTAG
AGTTACATAC CCTGAAATAT AAGCATAGAA TATGATGTAG GAGATTGCT TTAAAATACC
ACAGTAAGGA AAGAAAGGAA GGAGGAAGAA AAGAAAGGAA GGGGAAGAAA GGGAAAAGA
GGCAAGAAG GAAGAGAAG TAAGAGAAAG AAAAGAATG AAGGAAGAAG GCTGGGCACT
P _____ P

FIG. 6A(15)

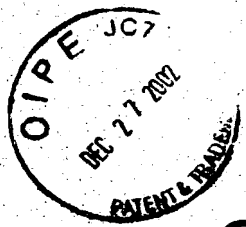


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P _____ **P**
GTGGCTCATG CCTATAATCC CAGCATTTAG GAGGCCAAGT TGGGAGGATC ACTTAATTAA
GCCCAGGAGT TCAAGGCTGC AGTGAGCTGT GATTGCGCCA CTGCACTCCA GCCTGGGTGG
CAGAGTGAAG CCCTGTCTCT AAAAAAAAAA AATAAGTTAA AAAGAAAGAA AAGGATAGAT
GAAGTATGGC AAGATGTTGG TAATGTTGAA CCTGAAGGAA GTTAATATGT GAGTTCACCT
TCCTCTTCAG TCTTCTTTAT GTATGTTTGC CAACTTTCAT AATAACAAT TTAAATTATA
TTTTCTGAT CAAAACCTTAG TAGCAGTATT AATCCCTGGG CTTCCTGACT AGAACAGCCT
CATTACCACA TGGCAGAGT TCTGGCCGAC CAGGACCAC GTAGTGTTT ACCATCTTGC
TCTGGTAATG TGGTCTGGC TGAAGGGCCC TTTCTAAGGT TGATAGATA AATCCAGGAA
ACTTGTTAGA ACTGCAGACC TATCAGGTA CCTGCAGGAG GTGAGTCTAC TAAGTGAAA
AAGCAGAGG CAGAGGTCGT GATTAGCAGC TGACCGCCCC CTGCTTTTCT GTCCCTCAT
CGTGAAAAAT TGAGTGGAGC TCAATTTTGA GTGAGCTCT AAGTAGCTCC ACTTGAGAC
_____ **Q**

FIG. 6A(16)

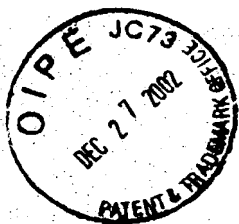


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Q _____ **Q**
ATTGAGTGGA GCTCTAAGTG TCTTCAGAAT AGCAAACAC TAGTTTCTT TTTCTTTTCT
TTTTTTTTTT TTTTGGAGAC AGAGTCTTGG TCTGTCGCCC AGGCTGGAGT GCAATGGCAC
GATCTCCGCT CACTGAACTC TGCCTCCCCG GTTCAAGCGA CTCTCCTGCC TCAGCCTCCC
GAGTAGCTGG GATTACAGGT GCCCACCACC ACGCCAGCT AATTTCCCTA TTTTGTAGTAG
AGATGAGGTT TCACCGTGTT GGCCAGGCTG GTCTCAAACCT CCTGGCCTCA AGTGATCCGC
CTGCCTTGGC CTCCCAAAGT CCTGGGATTA CAGGTGTGAG CCACCACACC CAGCTGCAAA
ACCTATTTT TCTTGAATGG AGAAACACTT TCCCCTTATT TATTGAGTTT GGGAAGCAAG
AAGAGGGGTA ATTCAATTAAG TGAATAATTC CAAAATCCAG AAAACATCGA TAAAGCAGCA
GCTTAATTTT TTTAAGGAAG AATTTTAA ACTATCTTCT TTTGAGCCTC TTTAGGAAGA
CCTCACGTCC TTGCCTTGAA TGTGAGAGT GGGAATCCA GGGAGTTTG GAATGCATGC
CTTATGCTG CTTTTTTGTT TGTTAGAGAA ATATAAATAT TTTATCTAGG TTTTGCTGAT
R _____ **R**

FIG. 6A(17)



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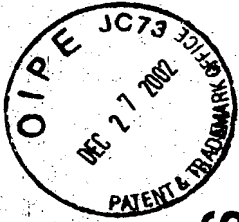
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R _____ **R**

GGCAGTCAAG CATGAACACA ACCCACTGTT TGAGAAGCTG TAATTCTGA ATTTCTGCAG
AGTGCACATC TAGCCAGCA AATGGCAGTA AGAGTGAGGT GGATTAGCT CAGTGTAAGG
ATGAACTCCA GAACCATCGG CTCTGACTGA AAGTGAAGCG GCAGCCGCGT TGTGGAAAG
CTGGCTGGAG TCTCTCTCAT AAGCAGGCAT TCTTTTCTC CAGCCCGTCA CTGTGTTGGT
TTGGGCCCCAC GGTAAAGCCTC CTGGCCTCTA GGCTGTAACC CCCACCATCC TCCTCTGCCT
CGCCTCCAGA GTGATTGTTT TGAAGCACAA CTGGATGTCA TTCCCCCTTC TGAACCTCTA
GCACCTACAG GGAATCCATC CCTTGTGCCC CACATACCTC ACACGTAGAC ATTCCCTAATG
AAGATTGAT TGAATTATTG TAAACTCAGT GCCTCCCACT CTTCTAGTTG CCTCTCTGCC
TGCCTTTGTA CATTATTATA TTTATTTATT TATTATTATA TTTATGAGAC AGAGTCTTAC
TGTATCACCC AGGCTGGAGT TTAGTGGCAC CATCTCAGCT CACTGCAACT TACCTCCCAG
ATCAAGCAAT CCTCCACCT CAGCCTCCCG AGGAGCTGGG ACCATAGGCA CGTGCCATAT

_____ **S**

FIG. 6A(18)



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S
GCCCCGTTAA TTATATTGTA TTTTGTAGA GATGGGGTTT CATCGTGTG CCCAGGCTAG
TCTTGAAC TC TGGACTCAG GCGATTGCGC CGTCTCAGTC TCCCAAAGTG CTGGGATTAT
AGCGGTGAGC CACCATGCCC AGCCGCTAGC ACTCATCTTA ATCGTATATT TACTTATCTG
GCTTCCCAC CAGACTGCGG GCTCTTCAAG AGTAAATGCC ATGTTTTCAC CTTTATTTC
CCAGTTGTG GCACATTCTA GGCACTCGCC ATCATGAAAT AAACCTCTGG AGCTGTGATA
TTACAAACGT GAAAGATGA CGAGCACTCA GCAACTTTCA GTGAGTAAAC AAAGGCTTTC
ATTCAGCATG ATTTATTGAC TGCCCAAATC TGGGCTGCTT CCTGTCTGTG GTTCAAGGAG
AGCATAGTCT ACAGAACCCAG AGACCTGGCT ACTCTGGAAG TTAGACTTAA GCCACCCCG
GTCCTTGAAT GGGAAATAT TTCCCTTCAT TCCTGTGTTT TAGGGACAGA AAGATGAGTA
ATGCAGTGAT ACATGCTGGA AATGTTTATT CCACTACCCG AAGCTGCC TC TCAACTTAAC
AATCCATGAA AGAAACAAGA TGGTATATAA CTTTCTCTAA TTTGTGATGC CTTTGTATT
T

FIG. 6A(19)

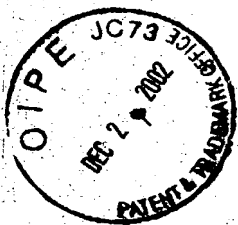


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T
TTGTTCCGG TTAAAAGAGG AGGTGGCATT GAATTGTTTG TTGGGTTTGG TTTCTTCTTC
AATAAGAAGC ATCTTAATAT AACTAGACTG GACATCTGTC CCATTTTCAA AAATTACAAG
TTTCGATCAT TGCTAAATTG TACAGATCCC AATCTGCTG CTCTGCATAC ATTTGCATTT
ATAAAAGCAG AAGCAGACTA GCAGTCTTTC TAATGCAATC CCCCAAATGC ATGAAGTATT
AGATTGCTTC TCCCTATTGG TTCATGCATT GCTAAAGGCT TAAAAGGATC ATTGATTTTA
ATTATTTAAT GTGTACAGCA GGCTGAGCTT CCTTCTTTT TTAAGGGAAG AACCTTCAGG
GGCATTGCTT TAGTTTTTA ATGTTAAATC TCATTTTTCT TTGAAAATAA GAAGTTAAAG
CTGTATTCAC ACAAGCTCTC AAAGTGCCAG ATTTTCATTG TGTTTTAA CCATCTAGGA
AATGTTTGAT TCTAATGAA CATTACTGCT GAAAATTGGG CTGAAATGTC TGGGCTGGAA
ATATTGTTAT AACTTCACAT GATTCCAGTG TTGTATTATT ATTTTTCCT TTTCTTTTTT
TGACCCGATA TAGATGAAGC GAAGAGACAA GGAGCAATCC CATGTGTAAT AGAAAAAGGC
U

FIG. 6A(20)

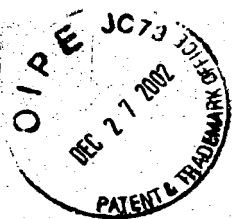


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U
AGCCTGAATT GTTGTGCTG TTTTGAAT TTAAGCTGGT TTTTCGATTAA ATTCAGTAAA
TGTCCAGGA CTATAAATGT TGAACATTTT TTACCGTGTG ATTTAAATTT TAGTCTTATT
GTTTTTTTT TTTTGAAGG TTACATTTT CCCCATGGGA AGCAGCTATG TCATGTCGGC
ATGATTCATC ATGGTAACAT CTCGGGTTAT TTTGGTTTGT GTTATGTTCA GAAAGCGGAA
TGCCAAAAAT AAAGAGTGGT TTGTGATGC TAGTGTGTCT TCCTTTAACA AATCAAAGGC
TTTTATTAA TCCACTTAAT GGGACACTGC AGAAATTAA AAAATGAAG TCCCATCCAC
AGAAGGCAGG TACTATGATG TAAAAAGTTT AGGTGGGGA TTAATAGAGT GATCATATAA
TTTATGAGCT AAACCGGAGG CACTTTTTTT TTTGAGATCG AGTCTCACTG TTGCCTAGGC
TGGAGTGCAG TGACGTGATC ACAGCTCACT GCAACCTCCG CCTCCCGGT TCAAGCGATT
CTCATGCCCTC AGCCTCCTGA GTAGCTGGGA CTATAGGCGC CCACCACCAT GCCCAGCTAA
TTTTTGTGTT TTTTGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGT CTCAAACCTC
V

FIG. 6A(21)

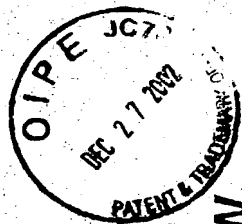


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V _____ V
TGACCTCAGG TGATCCGCC ACCTCGACCT CCTAAACTGC TGGGATTACA GCGTAAGCC
ACCATGCCCTG GCCCAGAGAC ACTTTTGAGA GTGAAGAGGA AGCTGAGAAT AATTCACCTGA
TCTACAACCTG GGACCATCCA GGGCAAGCCA GATGCCATTA CCACTAGCTA GAAAGCTTGC
CAAGGTCTCA TTACCTTGG TATATAGCAA ATTCTTCTTT TGAATTCTGG AAATCTGGT
AAGTCATTGA GGTAGCTCTG TGCCAAGGAG CAATATGGTA GAATTCTAAT ATTCAGGCA
GACAACACTT TCCTGCATTT GTAGCAGGTA AAGGAGGTC AGGCAGAGG ACAAAACCAC
TGGGACTCGA CAAAGGCGAT AAACGTCTAA TGCACCTGAT GTAGCTGATG GTAAATTGTT
ATCAGCTAAA GATCTTTTCAT AATAAATAAA CTTATCATTT GTAGGAGGGC ACAGAAATCG
TGGAAGAGCTG GGATTCAGGT TGCCGTGTGGC TTTAATTCTG GAATCAGAAA TATTAGTCAA
GGATATCAGT CTATGAAGTA AGTTTTCAT GTTATATGCC ACAAGATGCA GCTGTCCCTAT
TTTCACTTCC AGTAATTCCT TCTGAATTAA TACACCTTAA AAATAGCTGC AGCTTCTCAA
W _____ W

FIG. 6A(22)



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W _____ W

ATCTGTGAGA ATCGTATGTG CTGCTTGCTA CACTTTCCTT TTCCCTGAAGG CTCTTTGAGG
TCCTTCAAGA ACTCAATTCA ATTCAGCAAC AATTAGGGG TCTAAGGTAT ACAGACGCTG
TGCAAGATGC TCCTGAGACA CAAAGAGGAG GTCAAGCCCC TGCCTTCAGG CACCTCTCTA
TAATATAGGA GGAGAAAGAG AAGAAACACT AATACACATA GGAGGTGCC ATTAAAGGG
TACATACATT AAAGCCAGGT GGAGGTGTA AGAAGATTG TAACATGAGA ATTTCTGCA
TGTTTGAAAT ATCTTATAAT TTTTAAAAAT TAAAATGGGA GATACATATA TATGTATTA
TGTATGTATA TATGTATGTA CATATACACA CATATATACA TAAATATATA CATAAATATG
TATATATGTG TATATAGACA TAAATATGTA TATATGTGTA TATATACATA AATATGTATA
TATGTGTATA TAGACATAAA TATGTATATA TGTGTATATA GACATAAATA TGTATATATG
TGTATATAGA CATAAATATG TATATATGTG TATATAGACA TAAATATGTA TATATGTGTA
TATAGACATA AATATGTATA TATGTGTATA TAGACATAAA TATGTATATA TGTGTATATA

X _____ X

FIG. 6A(23)



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X _____ X

GACATAAATA TGTATATATG TGTATATAGA CATAAATATG TATATATGTG TATATAGACA

TAAATATGTA TATATGTGTA TATAGACATA AATATGTATA TATGTGTATA TAGACATAAA

TATGTATATA TGTGTATATA GACATAAATA TGTATATATG TGTATATAGA CATAAATATG

TATATATGTT GTATATAGAC AATAAATATGT ATATATGTGT GTATATAATA ATGTGTGTCA

TATACACACA TATATACATA CATAAACATT CTGCATTATA CCATTCACCT TGTAACCCAT

CTTCCCCTAAA AACTGTCTCA TAAAGAGTCT TCTTTTCCCT GTACCTATGC AATGGTAAGT

AGCAAAACAC ACATTCTTTT GGGTCCCCAT AACATTCCCT GTAGTTTGCC CTTAACAGTC

TTTGATGTGA AATTACTGT TTCTGTCTTA ACCTTGCCCTG TCTCGCGTAC ATGGAGTTT

GGCTCCCTGGC TCCTAGTCTG CATCTTCACC CCATCCCCTG CCCAAAGAAT CTGGTTATGT

GACCACTGCT CATCTTTTCT GCTGCCACAA CTCCAGTCCA AGCCACAAAC CTCTCTCTCC

TGGACTCCTG CGGGAGTTC CTTTCTCTCC CTGCATGAGT CTATTCTCCG CACAACCTGC

Y _____ Y

FIG. 6A(24)



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Y
ATAGGTAAGT GAGACTGCGG AAGAGGCAAG TTTGCAAGTC CAGAGGAAAT GAAGACTCTG
CTGTGCACA TGCTGGGTTT GACGGGTGCT GGATATCCGA TGGATGGCCC TTAAGGTGAG
CTCAAGGCTT AAGGAGAGA TAGGGCTGA TGATCTGAGA TTCATCAGTG TGTGGCTGAT
GTTTAAACCC AGGGACAGG ATAAGAAGT TATTCAGGG AGAGCGTAGA TAAAGAAGCT
AAATGGCTTC TGGGTCCTTA GTCATTCAA ATCGGACCTC TGAGGCAGGA GGAAAGCCCA
GAAAGAGTAG ATTCTGGGA CTCACGGGAT AAAGACTTTC AAAAGTGGG GGCTGGCCAG
TGCTGCTGAA GGAAGTAGCA GGACCGGAAC AGAAGGTAA TCGTTGGACC TGGAGAACTT
GAATTGAAT TTTAAGGTTG GTAACCTTAA AAAAGAGCAA TTTTAGATAC CTTTGAAAT
TATTGCAAG ATTGTTTGG TATATGTGTT ATTCCAGGCA AAGGACCAG AAAAGTAAA
AATACTTACT GAACAGTTAC TGCATGCCCTG GCACTGTAAC ACCCTGTTTA ATTCTACGG
CAACCTATA GAGTAGGTGT CATCATCCCC ATCTTACAGA TGAGGATATG AGTGCAGCT
Z

FIG. 6A(25)

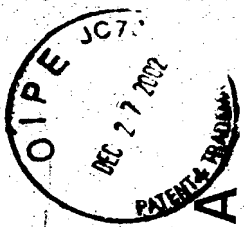


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Z _____ **Z**
AGATTAAGCA GTTTGCCCTCA GGTACACCA ACTGGTTAAC GTAGAGCTAG GATTGAACC
CGGATGGGCT GATCCAGAG CTCATGCTTT AAATCGCTAG ACTGGTGCTC ACAGAAGACT
GGGACCGAAA AAAATTAATA AAAAAATAA GGAGCCCCCT GGGCTAGCAA ATTAGGAGTT
GTTCAGACAG ATGTGAAAAG GAAAGCAAGG CAGAGGGAAA GTCACGTGAC AGAAGAGAGA
GACCCATGAC AGCAGAGACA GTGAGCTGGT AAAGTGGCTG GCGATCTAGC CCTGAAAAT
ACCTCCAGAG AGGCAGGCTC ACGCCTGTAA TCCAGCACT TTGGGAGGCC GAGGTGGGCA
GATCACCTGA GGTGAGGAGT TTGAGACCAG CCTGGCCAAT GCGGAAATCC CGTCTCTACT
AAAAATACAA AAATTAGCCG AGCATGGTGA CAGGCACCTG TAATCCCAGC TGTTCAAGTTG
GCTGAGTCAG GAGAATAGCC TGGATCCGGG AAGTGGAGGT TGTAAGTAAAG CAAGATTGCG
CCACTGCATG CCAGCCTGGG CGACAGAGCA AGACTTTTCT TAAAAACAAC AAACAAAAA
GAAAAAGAA AAGGAAAGAA GAAAGAGACA AAGAAAGAAA GAGAGAAGGA AAGAAAGGAA
A' _____ **A'**

FIG. 6A(26)



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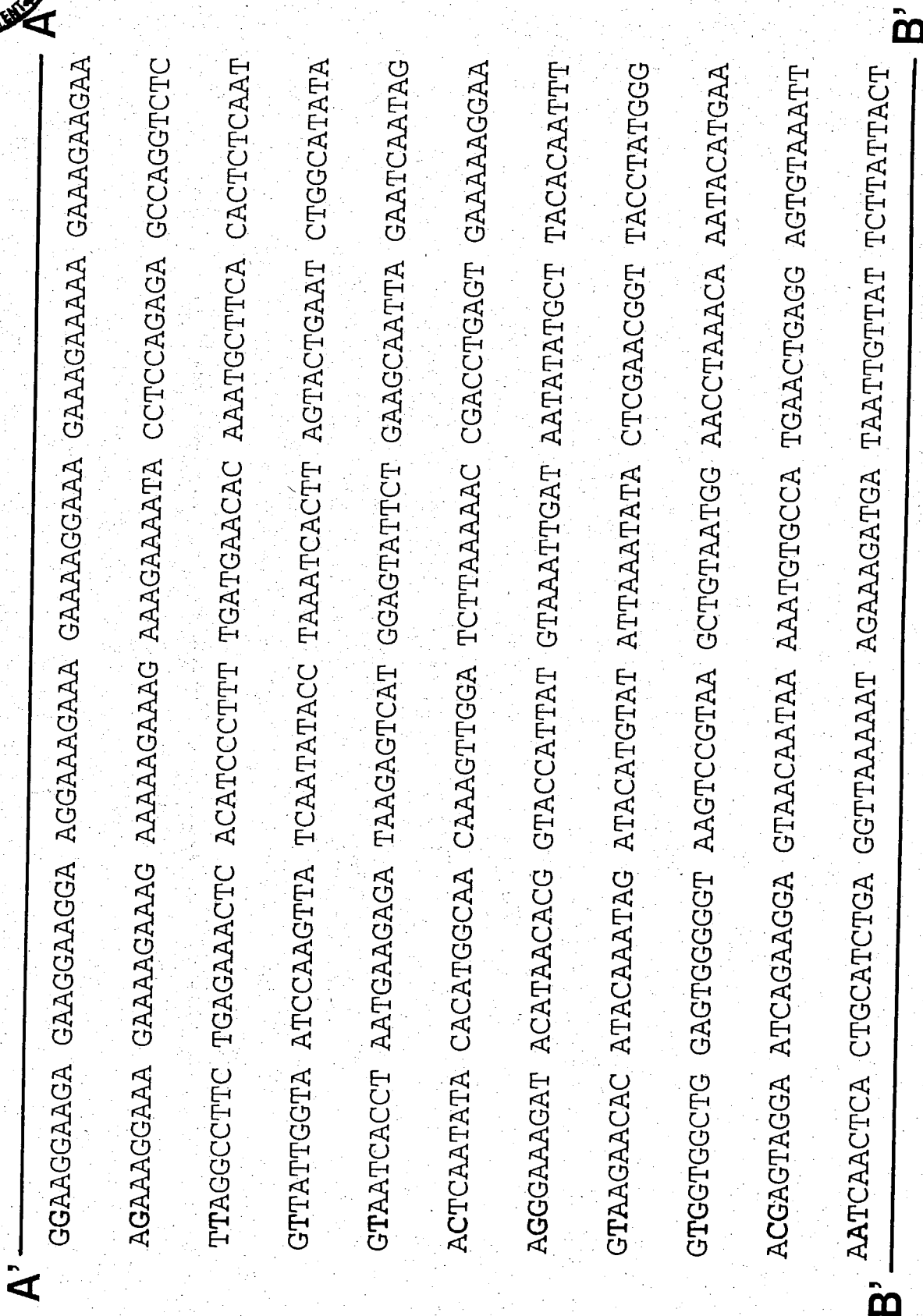
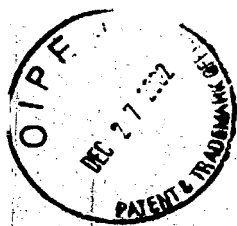


FIG. 6A(27)

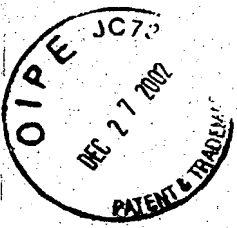


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B' _____ **B'**
CGTAGGTCTT CCACTTGCAC TCAGCTTTAC AATGTTGGAC TATCCTTCAG ATGGCACCCCT
CCTTGCACTT GCTCAGGCAG GAGAGCTTTT TCCTCCAGCT TTCTAGGTGA TTTAATATAT
CAGGGAATAA GTATAAAAAA AGGCACGGTG CTCCCTGGGT AGCCTTTCTG GACTTCAGAG
CTAAATTGCA AAGTCAGTTT TACACATGTG ATTTCACTA TGAAATTAGG GCAAGGTAGA
AAACTGGCAC AGAAAAATG TGATTTATTA TGGTGTACT ATCCCTTACA AGCGAGTGT
CAGCTGCCCTC TTTTGTCCA CTGATTTAAG GCAAGATGAA CTGAAAGTGG CTATGATCAC
GTCCTCAAAA GCACACTCTG GCCCCTCGGC TGCAGGCGCC CTGCACATTC CCCAGCTGCG
TGTCCGGTGG TGACACAGTG CATAATTGTG GCGCCTTCCT GGTGCAAACT GTCTCACTTA
GCTCCGTCTT GCTGGCACAG CAGAAAGGAA GAAATCGAAA ATGTTGGAT TTCAAAGGTA
ACAAGAAGCT GGAAACAAC TACTGGCCGA GTCTGAGAGT TTCAGCGGAG ACTGGTGCAG
CCTTGTGTTT TTCCACTGAC AGCTGAAAAT GAGCCAGCT TCAGTGAAGC TTGTTTCCCTT
_____ **C'**

FIG. 6A(28)



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C'-----C'
CCCTCCCTCAA GGTACCCAC AATTCTCAGT TCTCTCAGGA AAGCCAAAA ATGAATTGA
GGGTTTAGGA TTGTGGTTCT TTTATCTATT ACAGGATTGA TAATATGTTC CTCCACCAGA
TGTTCTGCTT GTAACAATAC TCACTTCCTG AACTACTGC ATATGCAGGA GTGTTACTAC
CAAGGTAAAC ACAGAAATTGG CTGCCCAATT CCAATCCCT GAACTGAGTG AGAGAAATCA
GAATTATAAT AGGGGATTCA ACAGAGCTGG CTACGGATGT GCCAGTGGTC AGATACTTG
CTCATCATAC GCAGGTGCTG CTGCTCTAGC AACTGCTCAC TGCTTCATTT CCTGCCTTGG
TCTTTAAATA CTGCTTTTCT CAGCTCAATT GGCTTTCTTC CCTCTGGCAG TCACGTTTCT
TTGGGTCAA CAGCAAATGA TTCTTTAGAA TCACCTGGTA CTCAAAGGAG CTACAAGACA
TTGGGCATCC ACTTCCACTC TCTTGAAAA ACAATTTTAT GGAAGCCAAG GTTGCCATAG
TGCCCTCTTGA GGTGTTTGC TCAGCCAAGG CCCAAGCTTT GTGCTTCAA CATGAAATTA
GAGAGCTTCA GAACAAGATC CACATTTTCA ATGGCCTCAC CCAACTGGAT AAAAGAACAA
D'-----D'

FIG. 6A(29)

D'

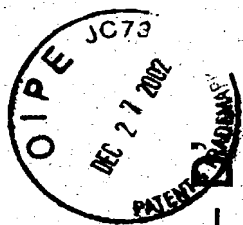
TTGCCATATC TCAATGACCA CCTTTTTCAG GTGGGATGGT AGATGCTGGA ATGGGTCACA
GCATTGCCCA ACCAACTTT GCAAAAAAGG CTGGAAGCTC TGA CTGGGA CCTTAAATAT
GCAAAAGTTG ATAGGCTCTT CATGCAGAAT ATGAACCCCG TGTATGGATA TAGCTAAAGG
GTTGGCCTTT ATGTTTCTAT TCCTTCACAA ACCTGGTAGA ATAGATATGC TTGTTTCCCT
TTAAAAAATG TCAACAATTG CATTATGAT GCTGTGTATA GTAACTCACA GATCATGCTC
CATGAAAATG CTTCAGAACC CAATATAAGG AGATTTTTA GCCATGTGTG ACAAAGAGA
GGCCATTCA GTGTTGAAAT TGTTCAGAGA AGTATTTGAT TATGTTTTCT CAGATCTTT
TATTTTATT TTTTTTGAAA CAGAGTCTCA CTTTGTACC CAGGCTGGAG TACAGTGGCT
GTGGTCTCGG CTCAC TGCAA CCTCTGCC TC CAGGTTCAA GCGATTCTCC TGTACGCTC
CCGAATAGCT GGGATTACAG GCGCATGCAC CACCATGCCT AATTTTGT TTTTAGTAG
AGACAGAGTT TCGCCATGTT GACCAGGCTT GCCTTGA ACT CCTGACTTCA GGTATCCAC

E'

FIG. 6A(30)

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E'

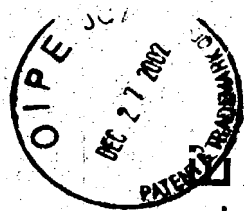
CCACCTCAGC CTCCCAAAGC ACTGGGATTA CAGGCATGAG CCACCGTGCC CAGCCTGTTT
TCTCAGATCC TGTATTGTGTT TCTGAAGCCT TCATTTCTAT CTTCCTTATTC ATTTTGAAG
TAGTACACCT AAGTAAGGTT TTTAACAATC AATATCTTT GGAAATTC CTGGTTCCCT
TCTTATTCCCT ACAAAAATAT GTTCAGTATA GCTGATGTTA TGTTTCTTTC AAATTATCA
TTTCTCTATC TCAGAAATTA TCTCATGCCCT AATTGTTATT GAATAGTCTT CACTTCTTGT
CATCCAGTTT CTGGTCTCTT ATTTCACTCT AAGCTAAGT GGCTATTAGA ATAAAGAGCT
TGTAACAGAT TCTTTCTCCA ATATGTCTTA TCTTTTGACT GCATGCCAGT GACAAACTGT
TAACTGTTTT GATTCTTCAT AACATTCCAC AGAACATGCT GACTCCTCTC TTCCCTGAAAG
CAATGCCCAA GCACAGCATT GTTAGATAGT ATGTACGCAA CAGGGACATG GGTGCATAGC
AAAAACTAGA AGGAAGGAG ACCTTCCTTA GCAATGGGTG ATATGTGCC TGGACTTAGA
CTCCAAAGG TCGTGAGGTG AAACACACAT CGTCCATACC CAGGAAGCAC ACAGGTGGGA

F'

FIG. 6A(31)

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F' _____ **F'**

TGGAAGAGCT GTGCCCTAATG AAACCTTCATC CACGTGGAGG TGGAGGAGGC TGCAGCTGCA
AGAACTCAGA GCTGCCCTTAC CCAGACCAGG GACCAGGGAG GGCTTTCTGG AGGAAACAGC
CTCTGAACTG CCAGCTGATA GAGGAGCTCT ACCTCAACTC TTCTGGTTCC CCAGGGCTGC
TTTTCCACGT CCATTTATTG GCACTGAAGT TTGAATACCT TCAGGGGCCC GAAAGCCTGC
CAGGTCCTCT TCTCTGCAGA GCAATCACAC CAACCTGCAA AGGCTAGGA AAGGGCTGTC
ATCATCTCCT ACTCAGAAAC TGGTTCACTG GAAGGACTCA GGGGCCACTG AATACATCCT
GGCAGCTTTC ACAAGAAGG CTTCTGACTC AAGGATGTTT CCATCTTTGC CAGGTCGCCT
TTTCTCCTTC TCTTAGAGTT TGGAGGACGC AAATGTGCTG AGAAGTCAAC CTTTCCCTGCA
AGGTGAGACA CAAGGGCCTT TCCCAGCAGA AAGAAGAGAG CAAATGGAAG GTCCTTCTTC
CTCCAGTAGA GGATGGACTC TGTCTGGCAG CCACCCAACA GGAAAGCAC AATGCATGCC
TGCCCTGCTC CCTCCCTCCC TCCGTTTCTC CCTCCCTCCC TCCTTCCCTCC CTTCCATTCT

G' _____ **G'**

FIG. 6A(32)



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G' _____ H'

CTTCCCTTCC CCTCCCTTCC CTTCCTTCC CCTCCCTCC CCTCCCTTC
TCCCTCTCCT TCCCTTCCCT TTCCCTTCCCT TCCTCTTCCC TTCCCTTCCC CTCCCTTCC
TTTCCCTTCC TCCCTCCCTT CCTCCCTTCT TTCCCTTCCCT TCCTTCCCTC CTCATTTCCCT
CCCTTCCCTC CTTCCTTCCCT TCCCTTCTTC CTACTTTCCCT ACCCTTAGGG CTCGTGTCT
TTGGAGTCCA TTCCTGATTAT GCTGTAATGT CTGCCCTTC CTCCTTCTCTG TCAAAAAATG
AAAGACATGG AAGCCACTTG CCTTTTACTG AATTAAAAAT TAGTAAAAGA GCTAAAAAT
AATGGTTAAA AATGTACGCA TAAATTATGC AGTATACTAA CCAATGAAA GATACACTTC
TCTTAATTAA AAGCTGACAG GGAGGGAAC AAGAAAGAG AAACACAAA CAATAATCTA
AATGACCTAT TAGTTGGAAG AACACATCA GAGAAAATAG ATACTGTGTA TAGTCATGTG
TATGTCTATG GAATAACATT TGTAGAGAAA TCTGCACTGA TCCTTCTGA GTAAAGAGAG
CTGTGGGTAC AATTAAGGG AGATTGAAAG GAATCCAAA GCATAGCAGA TGCTGTGCCT

FIG. 6A(33)

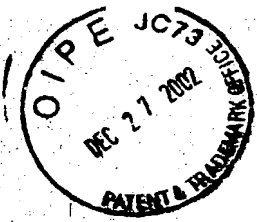


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H' _____ H'
CACTGGAATG GTTGCCGATC TCCTCCAAC TATGAAGTGT TTGAGGCTCA ACTTTAATAT
AATTAAGATA CAAAGACAGA ATGAGAGAAA GAGAGAAGG AGCTCACTGG AAGAACACTC
AAGATTCCCTT ACTACTCATT CTCTAAAATT ACAATTGTTC TAGATGGAAA AGAAAAAAG
CTTCTCTGTT AAAAAAGGAG CTTGTGCTAT AGGAGGTTA AAATATACTT CTGACCCATC
TCCAACATTC TAAATCCCTC CCAGAAAAGT ATGCCAATCC CAAGAAATAT TCAATCAAAT
TGCTGGAAAG AAAAAATACAA AATATTAAAA TGTATTAGGA AGGACACAGTA ATTAAATCAG
AACTGGAGCA GGAATAGACC AGCAGATCAA TGAGACAGAC ATCAAGTCCC GGAATGTGGA
CTTGCAAATG CATTAAGTAA TATGATATGC AATAAAGGTG GCACAGTGAA CCAATGGGAA
AAAAAATTAAT CTTATAATAA TTGATATTGC AATAATTGTC TAGTAATTGG GGAAGAAAT
AAGCTTATTC CTTATCTCAT TTCTTTTTTT CTTTTTGAGA CAGAGTCTCA CTCTGGTAGC
CCAGGCTGGA GTGCAGCGAT GCGATCTCTG CCCACTGCAA CCTTGCTCTC CCGGGCTCAG
I' _____ I'

FIG. 6A(34)

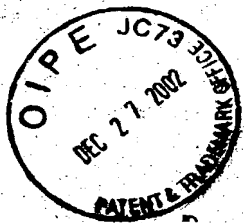


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I' _____ J'
GCGATTCTCC CACCTCAGCC TCCCGAGCAG CTGAACTACA GCGTGTGCC ACCACTCCCG
GCAATTTTT TTTCCATTT TAGTAAAAAT GGGTTTCAC CATGTTGCCT GGGCTGGTCT
TGAACTCCTG GGTCTAGGCA ATCCACCCGC CTGGCCTCC CAAAGTGCTA GCATTACAGG
CATGAGCCAC CGCGCCTGGC AGCTCATTTT TTAGACTAAA TAAATTGGAG ATGGCTAAAA
GATTCTATG TAGGCCAACT ATGTTTTTAA AAAGTTTTTT TTTAAGGAT ATCTGCTGGA
ACCAATCATG CCACCAACCA AAGATGCAAG ACTATAAAC ATACCCAGTT TTTCAAAGCA
TTTAAAAATT ATTCTAAAA TATTTTTTCT CCAGAAATTT TGCATTGATT CCTGAAGAA
GCATTAAAT GGGACCTGAC TTATAAAATG ATGAACTCA TCTCCCCACT CAAGGTAGGA
GTCTCTCAGA TTAAAAAAT AAGCATCCTA GTCCTCTTGT CCTGTAAAA GTTAACCCCT
ACACCTGAAA CACCAGGAGA CTGGCGGTG TTTGCATAGG GGTACAATT AAAGTTGAGC
TACCTCTGAC ATCTATTAAC ACCAAAATTA GTAAACTATG CATGTATGGA GACTTTTATG
J' _____

FIG. 6A(35)

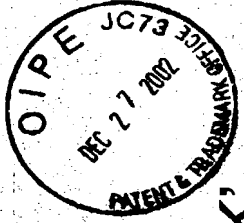


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J' _____ J'
ATTGAACTTG TTTATTGAGT CAAGAGATAT AGTTACAAT GAAATTTGG GGCATATCAA
AATGACCCTG GCTTAGCTTA GCATTTGCTG ATGTTAACTA TTTTCTTCAT TGGGCTGATT
TTAGTTGCTT AGGAAAAATA CAAACACACA CACTTTAAAA TTATATTAAA ATCCCGTCCT
AAACCTCAGA GTCCAGAAACC GCATCCTAAC ACTGGTCATG CATAATATGT TTAAATTTTT
GTGCTTTAAA AACTACAAAT AAGGAATGTA TTAATAGTTC CACAATCAAT GGTCAGTTAG
CCGAGGGAAG ATTAGCATAG TTAAGACTT AAAATGGCTT TACAACATAT ATCAAAAGGA
CAAAATAAGG GGAACAGAGT CTAGAAATGA GGAACTGGG ACACAGGCA AAAAAA
TGAGAACTGG GACATGAATA ACGCAAGGA TAAGACTAAT ACACAAACA CCCAAATA
ATAGCCAGCA TTTGCTGAGC TCTTACTGTG AGCCTGTTCT AAGCACTTTA CATATATTAA
CTCATTTTCAAT CCTCAAGGAA CCATCTGAGG CAGGCACTGT TATCATCTCC ATTTACAGA
TAAGGAATAG ACCCAGAGAG GCTGAGCAAC TGGGCCTATT CCACAGCTAC TATGGTGAG
K' _____ K'

FIG. 6A(36)

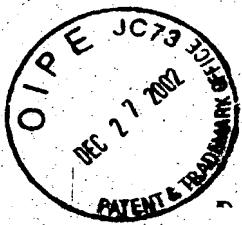


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K' _____
ATGAGATTTA AATCTAATCA TTGGCTCCAG AGCCCATGCA CCCAATGGCT GCACTAAGTG
AATGCATCGG CTATCAACGT TGCCAAAAGT GGGCCACAGC TCGGATCTGC GTTTTCCAGT
AGCCAAAGCA GAGAGTGTGA TCAGACCTCA CTTTAATAAG CAAGTCTCAA GCCAGAGAGA
GGTGGTATCA GGCAGCAAAC AGGCTGCTAG TCGAAATCCC ACTTCTTCTC TGAGTGGTCC
ATACAGTTTT ACTCTACTTG CTTACAGAAT GAAAATAGCT GGAGTTCAGG TGC GCTTTCA
ATGCCCTGTT GTCAGGATTG GGCTTTTCAA GTTTATTTTT TGTTGTTGTT TTTAATAGAC
TGTA CTTTTT AGAAAATTTT TAGATTTACA GAAAGATTGA GAGGATAGTA CAGAGAGTTC
CCGTATACCT CACACCCAGT TTCTGCAATT ATTAACCTCT TACATTCAATG CCGTACATTT
GTTACAATTA ATGAGCCAGG GCCGGCCGGG CACAGTGGTT CAGGCCCTA ATCCCAGCAC
TTTGGGAGGC AGAGGCAAGC GAATCACTTG AGGTCAGGAG TTCGAGACTA GCCTGACCAA
CATGGTAAAC CCTTCTGTA CTA AAAATAC AAAAATTAG CCAGGCATGG TGCTGGTTGC
L' _____

FIG. 6A(37)

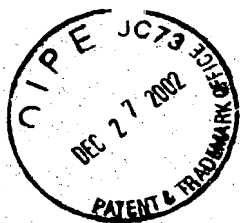


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L' _____ L'
CTGTATTCCC AGATACTCAG GAGGCTGAGG CACAAGAATT GCTTGAACCA GGGAGGCGGA
GGTGCAGTA AGCCGAGATC GTGCCACTGC ACTCCAGCCT GGGCAACAGA GCGAGACTCC
ATCAAAAAA AAAAAAAAAA AAAAGAAGG AAGGAAGGAA GAAAAATTAA TGAGCCAATA
TTGAGACATT ATTATTACTA AAGTCCATGC TTTATGCAGA TTTTCTTAGT TTTTACCTGC
TGTCATTTTT CAGTCCAGG AATGCATTCA GGATGCCATA CCACATTAG TTCTCATATC
TGCTTAGGCT CCTCTGGCT AGACTGAGTT TTAATCTACT TTCTGCAGAG CCTGAGAACT
TTAGCATAAT TTCCCTGGAA ATTACAGCTC AATATTTTCA AGCACTTATA CAAACAGCCT
AATGTTACGT TGGCCCATAA CAGTGTTTCA AGGTAATAAA CTTCTTTTGT TTCTGTGCCG
ATTGAAAGAA CTGCTGCTTA GCCTCCTGCC AGATGATGAA CTGGGTACAC ACGAGCATTT
TTCCAGGTAA AGCATATTTT GTGCGACTTC TTAAGCTGCA GCCTTATATG CAATAATTGT
CCATTACAA GACTTATGTT CGAATTTCAG GCACTCTGTT TTCACATAACC ATATCCTTCA
M' _____ M'

FIG. 6A(38)



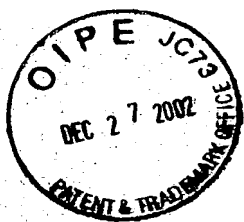
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M' _____ **N'**

ACTTTGATAA GTACTGCTTT AATCAACTCA GAAATTTAA CTTGACTAAT TTTTTTTCAC
CATCAGTTTT TTTTCTGTG ACTCTTCTC CTTTTTCTGT TTGCCCCAGAA ACATGCTCAG
GATCTCTCA GGCTTTAAAA AATGAAAAAA TGTTTCTCTG AATCTAGTTA CTCCTTGATT
CTCTTGTTCT GTTTATCGCT GGAATCTTG AAAGCTTGGT GTATTAGTCT TTTTTCATGC
TGCTGATAAA GATATACCTG AGACTGGATA ATTTATAAG AAAAGAGGT TTAATGGACT
CACAGTTCCA CGTGGCTGAG GAAGCCTCAC AATCATGGTG GAAGGCAAAA GGCATGTCTT
ACATGGCAGC AGACAAGAGA GAATGAGAAC CAAGGGATTT CCCCTTATAA AACCATCAGA
TCTTGAGAGA CTTATTCACT ACCACAAGAA CAATATGGG TAAACCGCCC CCATGATTCA
ATTATCTCC ACCGGGGCCC TCCACAACA CGTGGGAATT ATGGGAGCTA CAATTCAAGA
TGACATTGG GTGGGGACAT GGCCAAACCA TATCACCTGG CCTATAGCAT TATTCCATT
TCTTCCCCAT CCTTTTATTC CTCAAACCGG TACAACCAGA CCTCTTTTTT TTTTTTTCTA
N' _____

FIG. 6A(39)

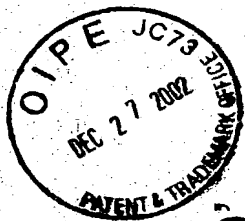


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N' _____ N'
CCTGAAACTG CTCCTTTTGAG GGTAGCTGAT AAGTCCAAA TACTGTCACC TTTTCTCAAT
TCCGTTCCCTT CTTATGCCTT TGGAGCAATT GACTGTGTTG GTTGCCCCCT CTTTAAAGT
GTCTCTCACT TGGTTTATG ACTAATGATG ATTTTCTTTT TCCTCTCTAA ACATTCCGCT
ATCTTTTAG CTTCCTTCC CCTCCCATC CCTAAATGT CCTGTGTTCC CAGAACTGC
CTCACCTCTT TGACTTCTCT ATGCCCTGTC ATTCACTCAT GGTCTTTAT TACATTATTG
CATCTGTGC AATAACTCTG GTCTTCTGT TAAGTCCAG TCCTCCATTT TCAAATGTCC
CCAGACATTT CCAATTGAGT ATCTCTCAA TGATTTAAC CTGCTAAATA TCTAACACAT
AATCTTCCC ATCAAATCGT TTCCCTCTAA GCTTTTCGT ATTCTCTATT AGACTCCCTGC
ACTTCTCCA GGAGCCAGA CTAAACCT TGAATTCTC ACCATAACCT CTCCTTTGTC
TCCCATATC AATAGTAGC AAGTGTTATC AATGATTACT TGACAATATC TTTTCTTATT
TCCCTCCCTG CTATGATCAT TCATCTAGCA AGAAGATTG GCCCTTTGTA TCTGTGTTT
O' _____ O'

FIG. 6A(40)

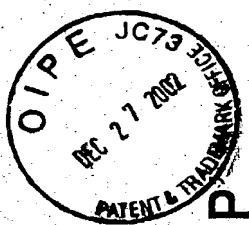


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O' _____ O'
CTGCATCCCT GGATTCAACC AACTGTAGAT GGAAAATATT TGAAGAAAA AGCGTCTATA
CTGAGTATGA AAAAATTTTA TTTCTTGTCA TTATCCCTA AACAAATACAG TATAACAAC
ACAGCATTTA CACTGTAGCG TATAGATCTT ATAATCTAGA AATGATTCA AGTACACCAT
TATATATAAG GACTTGAGC ATCTGTGAAG TTTGGTATTT GTGGGGCATA CTGGGACCAA
TTCCCCCATG GATACAGAGG GACAACTATA TTTACTCAGT GCTTACTAAA TACCAGTTGG
CCAATGTGTT TTTCTTTTTC TGTTTTCTG TCTTTAGTTT GCCCCTTGCC AATTAATTCA
ATAGTGCTGC CAATGCCAGG TGTACCTTCA GAATATTCTA TTCTAATTTT GTCATCTCCA
AGCTTAAAA TATTTAATGG GCCAGGCGCA GTGGCTCACA CTTGTAATCC CAGCATTTTG
GGAGGCCAAG GGGGGTGTA TCACCTGAGG TCAGGAGTTC CAGACCAGCC TGGCCAACAT
GGCGAAACCC TGTCTCTACA AAAAAGTATA AAAGTTAACC AGGTGCTGGA GCATTGTCCT
GTGGTCCCAG CTAATCAGGA GGCTGAGGCA GGAAATCAC TTTAATCTGG GAGGTGGAGT
P' _____ P'

FIG. 6A(41)

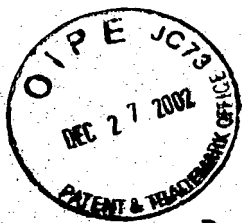


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P' TTGCAGTGAG CCAAGATCTC TCCACTGCAC TCCAGCCTGG GTGACACAGC AAGACTCTAT
CTCAAAACAA CAATAACAAC AACAAACGAAA AACATTTAAT GGCTGCACCT TGCCTGTGAA
AAATGCATT TTTGGCCAGA TGTGGTGGCT CAAACCTGTA ATCCCAACAC TTTGGGAAGC
TAAGGCCAGG AGTTCGAGAC GAGCTGGGAT ATATAGGAAG ACACAATCTC TACAAAAAAA
AATCCACAAA ATTAGTCAGG CTTATTGTTC ATGCCGTGAG TCCCAGGTAC TCAGGAGGCT
GAGGCAGGAT TCCTCAAGCC CAGGAGTTCA AGGCTTCCGT GAGCTATGAT GGCACAAC TG
CACTCCATCT TGGGTGACAG AGCAAGGTCC TATCTCTGGA GAAAAAAA AAAAGAAGGC
ATTTCTTAGG AGAGTTCTTC TCTGTAGAGT CCTAAGGGTT CCATGGAACCT CCTTAAAGC
ATCAGAGTAT GTGAGTGCAA TGGGAGGAAG CATTAGCCA GAGCAGTTGT GCTCCCATTG
CATATTAATT TTTAAAAAAC AAAGCTATAA AAAAAAGTTG AAAACTACTA CGTTAGCATC
AGCCTGACAT TTAATGGCCT CGTAAATCAA ACCTTAATTG ACTTTTAGC CAGTTATGCT
Q'

FIG. 6A(42)



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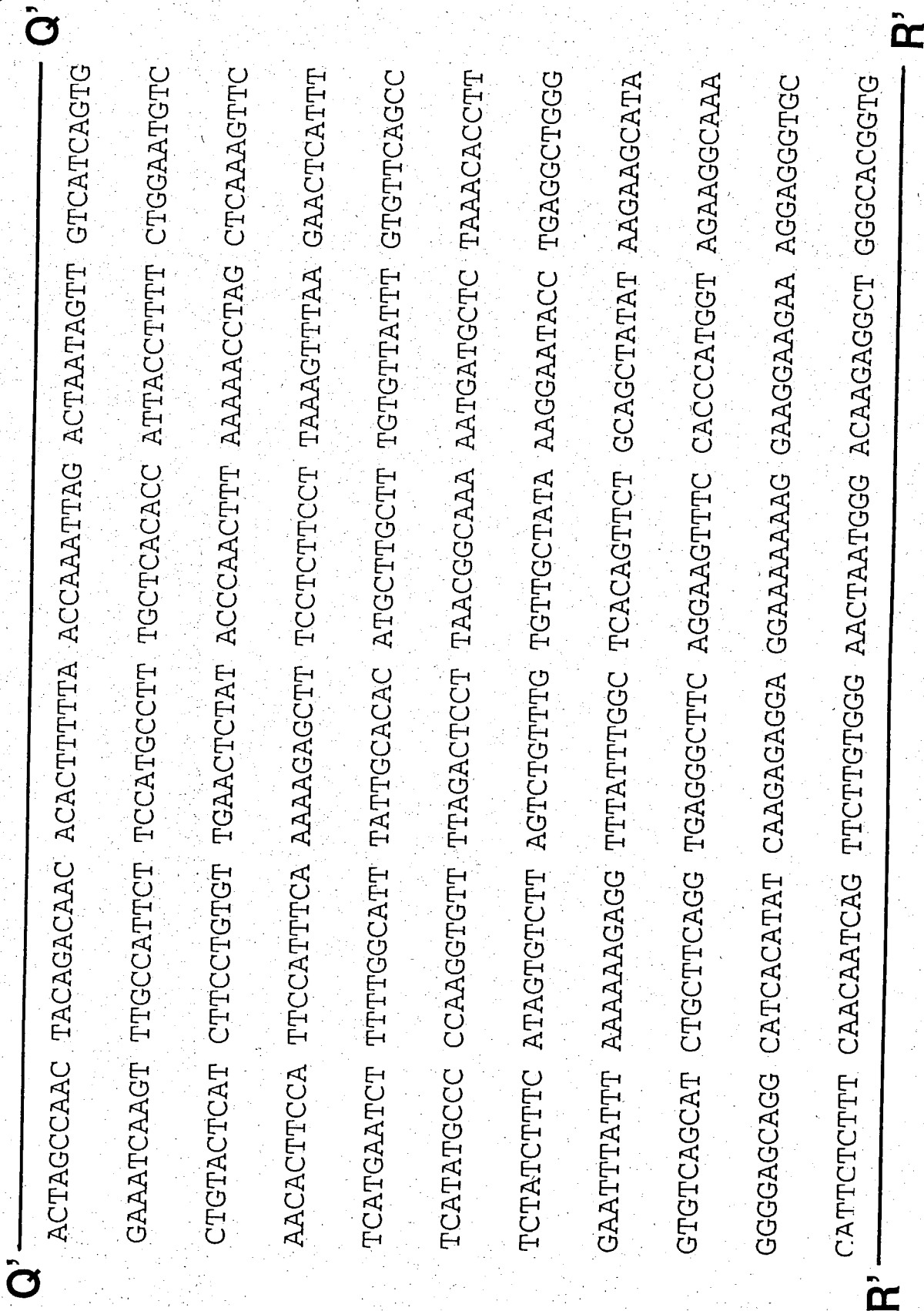


FIG. 6A(43)

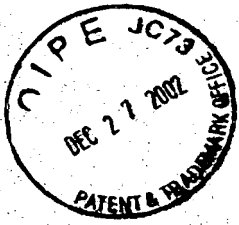


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R'
GCTCATGCCCT GTAATCCCAG CCCTTTGGGA GACCAAGGTG GGTGGATCAC CTGAAGTCAG
AAGCCTGAGA CCAGCCTGGC CAATGTGGTG AACTCCGTC TCTACTAAAA ATACAAAAAT
TAGCTGGGCC TGGTGGCGTG TACCTGTAGT CCCAGATACT CAGGAGGCTG AGGTAGGATA
ATCACTTGAA CCCGGAAGAC AGAGGTTGCA GTGAGCTTGT GCCACTGCAC TCCAGCCGGG
GCAACAGAGT GAGACGGTCT CAAAAAATTT TAAAAACTTT AAAAATAATA GAGCAAGAAA
GCACCAAGTT ATTCAGGAGG GATCCACCCC CAATGACTCA AATACCTCC ACCAGGCCCTC
ACTTCCAACA CTGGGGATCA ATTTCCGTAT GAGATTGGA GGAGACAAAT ATCCAAACTA
TATCACATAG TAATGAACAT AGTACCTTAT CTATAGAAAG CAATGGCTAG ACAACTGTTG
AATGGCTAAC CAAATCTGCT TTCCTATGGT CTCGCTCTAG AGGGGTCAG TATGAGTTTC
TGTCAAAAGG AGAAAAAAA ATGTATAGTC AGTTTGTGT GTGTGTGTGT TCATGTAAAA
GAGATCAAGA GAAAGAACA AGAGAAATCA TGAAGAAGGAG GGGGAATATA AGAATAATAC
S'

FIG. 6A(44)



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S' _____ S'
ATAGAAAAA GCAAATTATC TTGTTTATCA GTAATACCCA AGGGGGTAGA AATGGTAAGT
AATAATCCTT CTTCACTTTG TCTGTAGTTC ACTTTTTC ACCTTTTATTT TGATGAATTC
ACATCGAAGA CATTAACCTCA TTAAGGCTTC CAATATTTT GGAGATAAGA AGGGCTGCTA
TGCTCTTTAT AGATGGAAAA CTTGGGTCAT TAATAACTCA AACAAGGACA TAACAAAGAA
ATGGAGCATA AACTGCCAGG TCCTGACTGT AGATTGGAT TCCCAGTTGG TGTCTTGTC
CCCTTTGTTA CTCCTCCTAA AGTTATGATC TTTTCTTGTC CATAGGAAAT TCATAGTGAT
TTCCCATCAC CCTTGGGATT ATCATAGCTC CTTTAAGGTC CCGCTATGC ACTCAATAAC
ATCAACAGTA AGTGTCTTC GAGCACTTAC TGAGTGTATA TCATTGTGTT CTCACGCAGC
ACCCACAGAT CTCACCAAGA ACCTAGCTGA AGCCTGTAGA ATGAATAGGT AAGTACTGCC
ATGCCAATCT GGAGTACTCA AGCGATGCAA ATGATTCCTT TAATTGTACT TTTGCAGGCT
TGTCAAGTTT GCTCATGGAG AAGTGGCTAC TGCATCCATG TTATATCTAT GTAATGTTGG
T' _____ T'

FIG. 6A(45)

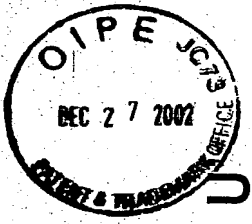


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T' _____ T'
ACTGCCAAGC ATCACTTGAC TTTTTCACAG CAGAAATTAC AGCTGATGAC AAGCTGCTGC
TGAGAAAATG GATATTTTC TGAATTCAGT TCTACGTGGA AACAGCTGAC TAGTTTCCAT
TGCTGTAAGA ATGGCTCTTT TGCTCTTGGT TGATTTTGAG TAATGGCTTT ACTTCTGTAG
AAAGGAGATT TCATTTGAAG TCCACTCAGG GATTTGTTTC AACAAACTGG AGTACAGGTT
TCAGAAAATA TCTCTTTAAT CCTCCAATAA TAAATTTTCT CATCTATAAT TCCTGGAAACA
CTTCATCCTT TGCAGCCGAG CATATAGATA GATTGTGTC TCACTGTGTT CTGATTGCCA
CTTTGACCTG CTTTTTCAAC TTAGGTTACA AATAGAACAG AATCTCTCTG ATTTTCTCA
TTAATTGTTT GAATCCCCAC TTTTCCCTCAT TAGCAAGAAG TCCAGTATCT TCCTGAGAAC
TTCCCTTTTCT CAATCTAGGA ACTTACTTGG TCCATAAGGT AACAGTCTTA TTTCTGACTA
TCAAGGAGAG AAATAACAGG AGCCATTATC ATCTTCATGG TGTCACTTTT GAAAACCTGGT
CCTCTGTAGA TCTTCAGATT CTGCGTTAG TCCATTGAGC TGCTATAACA AAATTGCATA
U' _____ U'

FIG. 6A(46)

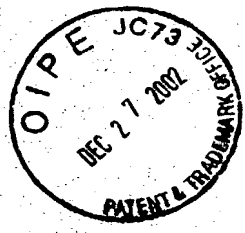


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U' _____
GACAGCATGG CTATATAATA ACAGAAATGT ATTTCTGACA GTTCTGAAGG CTAGAAAGTC
AAAGATTAAAG ACACTGGCTG ATTTGGTGTC TGGCGAAGGC CCATTGCTC ATAGATGGAC
GATGACCTTT CACTCTGTCT GCACATGGCA GAAGGGCAAG AGAGCTCTCT GGTCTTTT
TATAAGGCA CTAATCTCAT TTTTGAGGAC CCTGCCCCCA TGACTTAATC ACCTCCCCAA
GGCACTGTCT CCCAATACCA TCACCTTGAG GGTAGGATT TCAACATATG ATTTGGGG
GACAGAAACA CGCAGTCCAT CTCGCTTGTC CACTCCATGG TGGTATTCTT GCTGGATCAG
TTTCCTCCTT GGGTGCAAT TGTGTTCCAT GTCTAACTG CAAGTTATAG CAGGCCCGAT
AGCAAAGTAT TCCAATGTTG GTATGCAGAG GCATTGAATA ATCAGAAATGA ACCCACGCCA
TAAACAACTG GTAGAGCTGC AGAGAGTACC AGCTGATTAT GAGCCCTGGG TAACAGTGGT
TTTTAGTTCC TATGTCCGTC AGCCCTTTTC TCCCATAGTA GCCCCTACTGT GTTGAAGTGG
CTGAATCGAC AGAAGCTTCC AGCTTGGGCC ACATGCTCAT GGAACCAATT CTCCTTATGA
V' _____

FIG. 6A(47)

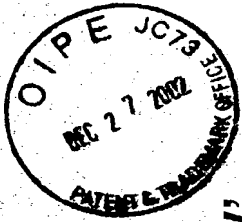


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V' _____ V'
GCCGTACAAG AGCTGGGTTG CCATTCTGGA TACCCTCTTT TTTCAAGAGA TTTTATTTC
AGGATAATTT TTCTTTTATC AACTACAGG ATTATTAGA ATCTTAGGGC AGTGGTGCCC
AACCTTTTGG GCCCCAGGGA CAGGTTTGT GGGAGACAGT TTTTCCATGG ACCAGTGTC
GGGGGCTGG AGGCATGGTT TTGGGATGAG TCAAGTACAT TACGTTTGT GTATACTTTA
TTTCTATTAT TATTATATTG TAATATATAA TGAATAATT ACACAACCTCA CCATAATGTA
GGAATCAGTG GGGAGCCCTA AGTTTGTTT CCTGCAACTA GACAGTCCCA TCTGGGGGCA
ATGGGAGATA GTGACAGATC ATCAAGCATT AGATTCTCAT AAGGAGTGCT CAGCCTAGAT
CCCCGGCATG TGCAGTTCAC AATAGGATT GCTCACCTAT GAGAATCTAA TGCCACTGCT
GATCTGACAG GAGTGGAGC TCGGCAGTA ATCGAGGGT TGGGGAGCAG CTGTCAATAT
AGATGAAGCT TTGCTCGCTC GCCTGCCACT CACCTCCTGC TGTGTGGTCC ACTTCCTAAC
AGGTCACAGA CTGGTACTGG TCCATGGCCA GGGAGTTGG GACCCTGTCT TAGGGAGTAG
W' _____ W'

FIG. 6A(48)

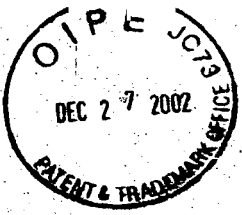


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W' _____ W'
GGGTGGAGTT CCTTCACTT CTAGAAGGCC CTGGATTAGT ATCCCAGAGC TGTCATTACA
GAGTATCACA AACCAGGTGG CTAAAAACAG ACATGAATTC TCCTTTATTT TTGATGGCTT
GGAAGTCCAA AGTCAAGGTG CTGCCAGGGC CATGCTCCCT CTGAAATGTG TAGGGGAGAA
TCCTTCCTTC CTCTTTCTAG CTTCGTGTGG TTTGCTGGCA ATCACTGGCA TCGCTTGGCT
TGCAGCACTT CAACATCTGC CTTTACTGTC TCATAGTGTT CTCCCCTCAT GTCTCCAGGT
CTCTCTGTCT CTCTTCTTTG TATAAGGAAA CTAGTCATAT TGGATTAAGG GCCAACCCTA
CTCTAGTATG ACCTCATCTT AAGGTCACAT GCAATGACTA TTCCAGATAA GGTACATTC
TGAAGAACTG GGAGTTAGGA CTTCATATCT TTTGAAGGAA CACAGTTCAA CCAATAACAG
CCCCGTACT GTTTTACAAA TAGGTATTCC TCTCCTTCCC AAAGTTCTTC ATAGCAGAGA
CAACTTGTA CAAAAGGCAA AATACCTTAT TATGTAACCT TAACCTAGGA TCATAGATCC
CTACTGTCTG GTGCTTTATA AGCACAGAAC CACCGGGAAA TCATTATTAA GACAAGGAAA
X' _____ X'

FIG. 6A(49)

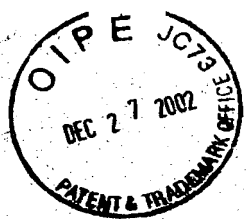


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X' X'
GGCCAAAGTGC AGTGGCTCAT GCCTGTAATC CCAGCACTTT GGGAAATTGA GCGAGTGGA
TCAACCTGAA GTCAAGAGTT TGAGACCAAA CTGACCAGCA TGACAGAACC CCATCTCTAC
TAAAAATACA AAAATTAGTT GGGCATGGTG GCATGTGCCT GTAATCCCAG CTACTCAAAA
GACTGAGGCA GGAAATCAC TTGAACCGAG GATGCCAAGA TAGCAGTGAG CCAATATCGT
GCCACTGCAC TCCAGTCTGG ATGATAGAGC AAGATCCTGT CTCAAAAAT TAATAATAA
ATAAAAAGAC AAGAAAGCC TTTTCCAAG AGACCCCTTCT GCTTTGCTAG TTCAGAGAAC
TTCTCTTTTG GAGAAACAA ACACCCAGTC CATTAGCAGC AACGTCAGG ATTGAATTCT
TAGGGCAGCA GGCTGGGCAC AGTGGCTCAT GCCTGTAATC CCAGTACTTT GGGAGGCTGA
GATGGGTGGA TCACTTGACA TCAGGTGTC GAGACCAGCC TGGCCAACAT GGTGAAAACT
CATCTCTACA AAAAATATGA AAAAAAAAAA AAAAAAAAAA GCTGGGTGTG TTGGCTTATG
CCTGTAGTCT CAGCTACCTG GGAGGCTGAA GCAGGAGAAT CACTTGAACC CGGAGTTGG
Y' Y'

FIG. 6A(50)



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Y' _____ Y'

AGGTTGCAGT GAGCTGAGAT TGCCCTACTG TACTCCAACC TGGGTGACAG AGAGAGACTC

CATCTCAAAA AAATAAAGAA TTCTTCGGGC AGCAGTCTTT CCTCCACCTC ATAGACCATG

GAGGTGAGCC AGCTCTGACA AACCATGAGA ACAATGGCAG AGACATACCT GTAACGTAAC

TGACTGGGGC AAAGACAAAG GTGAGGAAAA TGACAAGTTT GAGGAACTAT GAGACCAGGC

AGTGGGAAC ACCACTAGCA GAAATGATGG AAGTTCTCAA GAATAACAAC AGAGAAATAG

ACCATGGCCA GAGCTAGAA CCTCCAGGG AAAGGAGATG GGCTCCAGAG GCAGAAGAGG

ACGTTGAAGG GAATGGGGAG TGGTGAAAT ATATAGACGA TGGGGACCAC CCAAGAGCAG

TCGCTATTGC AAAACTGAGG AGAAGGAGAG TCTGGAGGGG GTGGTGGAA GCTGGGTCTC

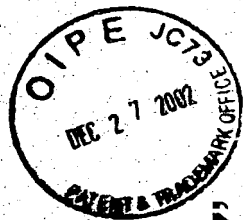
CTAAGGAGGT TTTGACAAAA GCAGTCATGG AGCGGGCTTA GAAATCACAG TTGGGGACAG

GGTAAAGTTC CTCGGGATAT AGAGGATGAG ATTAGAAGAG GTTCCAACTA GGTAGTGTG

GAGAAAAGCA CTATTGACCC AAAAAGGAAG GAGAATGTGG GTGGAAGTGG CAGAGAAAGA

Z' _____ Z'

FIG. 6A(51)



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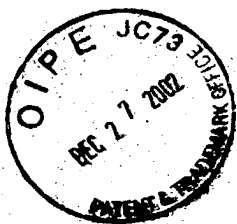
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Z'

GGGGTTTGAG CAGAGAGTGG TGATTTTCT AATGCAGAGT TGTGGGAGGT GGAGTGCAGG
GAGCCAGGCT GGGTGGCTGT GCTGATGTGA TTAAGCACTT ACTGACTGCC AGGCAATGGG
CTAAGTACCT GAGATGCTTT GTCTGTTATC CCTCCCGAAA CCCCTCTGAG CAGGTGCAGT
TATTATTCTC ACTTCACAGA TAAGGAAATT GAGGCACAGA GAATTGAGTA ACTTACCCAA
GGTGACATAG CTCATATATG GTAAAGCAGG CTTTGAACTC AGTCTAGCTC CCGAACCTAA
GCTTGTAACCT ACTATGCTTT TCCCAAAAAA AGGGGGCTGG CACAAAAAGA GCTGAGGGGG
CTGGGCATGG TGGCTCATGC CTGTAATCCC AGCACTTCGG GAGACTGAGG CAGGTGGTTC
ACCAGAGTTC AGGAGTTCGA GACCAGCCTG GTCAACATGG TGAAGCCCTG TCTCTACTAA
AAATACAAA ATTAGCTGGG TGTGGTGGTG TGCACCTGTA GTCCCAGCTA CTTTGGGAGG
CTGAGGCAGG AGAATCGCTT GAACCCCAAG GCGGATGTT GTAGTGAGCC AAGATCATGC
CACTGGACTC CAGCCTGGGT GACAGAGTGA GACTCCATCC AAAAAAAGA AGAGCTGAGG

AA

FIG. 6A(52)



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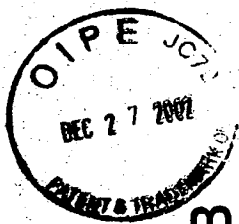
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AA AA

TGATGCCAC CATCAGCATC AGCCTGGAAG TTATAGCAGG ATGCTAAGTT TCTCTAAAGC
TGCTTTTCTT AGGACTTGAA AAAGATAACT TGGGTTTGTA TCCCATCTCT GCCATTAGTA
GTTTACTGCG TTTGGATAAA TTACTIONAGCC TTACTIONAGCC AACTTTGGAT TTTTATAGAG
ATACTGTAAT GAAAGGAATA AGGTATCAGT CTTAGCAGAG CATCCAGAGT GTTCTTATTA
AAACCTAAAT CATATCCTGT CATGTCTGTG CCCCACCAAC TTCAATGGCT TCCCAACTCA
AAGTTAAAA CTCATCTTTC CAGTGGCCTG CAAGAGCCTA TGCTATCCGG TGTCTGACCT
CATCTGTTGT TCCTTTCTCC CTCCCTTTCT TGGCTCCAGA CGCACTCTGG TCTCCTTGCT
GTTCCCTTGAA TACACCAGGC ACACCTCTCT CGCCTGAAAC ACTTTACCCC AGATATCTTA
GCTTACTCTC TGCCCTCCCTC AATTCAATGA TGAAATGTCT CAGTGAAGTC TTCTCTCTCT
CCCTGTGAAA AGTATACTCT CTGTTCCCTT TCTTTACTGT TCTAGCTACT ATTGCTGTGT
AACAAATCAC TCCCCAAATT TAATGAGTGA AAACATCAGC CATCATCTTA TTTCTCAGG

BB BB

FIG. 6A(53)



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BB _____ BB
TTTCTGAGG TCAGGAATC TGGAAGGGCT CAGCTGGGAG GTTCTGGCTC TATAATCTCT
TATGCAGTGA GAGTCAGATG CTGGCTAAAA CTGAAACAAA GCAGGGTTCT AGTAGCTGAG
GGCTGGCTGG GTCTCTCAGA TATAGTTCAG ATCTCCTCCA GGGGGTCTCT CCACGTGGGC
TAGTCTGAAC TTCTCTACAG CATGGTGGCC TCAGGGCAGT GGA CTCTGCA TAGTGGCTGA
AGGCTTCGCA GCTGAGTATT CCAGCAAGCA AAGTGGGAGC TGTATTGCCT CATATGACCC
AACCTTGAA TCCACACAGC ATCACTTCCG TGTATTCTAC GGGTTGAAAA GTCACAAAAA
CCAACCAGTT TCAAGGAGAA GGAACAGAGA TCACATTTCT CAATTGGAGA AGGTCAAAG
TCACATTGTA ATCAGAGCCT ATGGGATACG AAGTATTGCG GTCAGGTATG AAAAATTGTA
TTTGCTGCAT CTGCTTTACT TTCTCCACAG CGTTCATGAT CTGCTTCTCA CATGATATTG
ACTTACGTCA TTTCTGCGTT TCCTGTCTTC CACACTAAAA TGTACGCCGT TTTTGTTCAC
TGCTGTATCC CCAGAGCCTA GCACGGAGCC CAGCATGTAG TGGTATCCAA TAAATACTG
CC _____ CC

FIG. 6A(54)

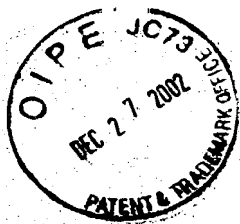


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CC _____ CC
TTGCATGAAT GAATCTGTC TTTTAAATCCT AGCTATAGGT TTCTAAGTTA AATATTACTA
TAATCATCTT ACAGACGAGG GAAATGAGGC TCAAGAAGAT TTGGTAACTT ATGCGGGATC
ACTCAGCCAC ATAATGGAAG AGACAGCATT GAAGTACACA TGCTTGCTCT GTCTGCTCTT
CCAAGCTGCT CATCACACAG CTGCACCTCT GAGGACTTCC CTCCCCAGTC CACCTCCACC
CTTACCCAGA GACACACATG GCCACAATCC ACTAGCAGAC CAAAATTCAA TTTTTCCTCCA
GTTGGTTGCA CTCAAGCTGA GAGCAAAGCA ATTGCACCTT AAATCCCCTT ACAGCAGATA
TTTCAGAGCA TGTTCGGAAG AACCACATCAC ACTTGGCTTT TAGATCTTAT TTCTGGTTTG
TTACAAAAAC ACAATTAAAT GAAAGGTTAG GTAGCTTTTG AATGGCCAGC TCAAAGTTT
GGCTTATTTT TGCCTTGCTG TCTTTATAGG CATTTTACCA ATATTATCA CTATTCCCT
TAGGGAACCC TTAGATCTGT GATATTGAA ATAATAAAGC CTCCTCATG GCCCTTTAAA
AGGTTTGTGG TAAACCACA CCATTAACAT TCACAGTTCC TTATTATGA GGCCTGATG
DD _____ DD

FIG. 6A(55)



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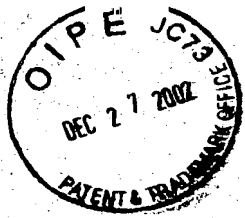
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DD _____ DD

CACTTATTTC CATATTTCCTC ACTGTTTCTC CGATGAGGAT TTCACATAAT AGTGTTTGAA
GGCTAAAGAC TTCAAAGCAG ATTCTTTTACT ATTTTATCT TGAAAAATAT TCAATATTG
TGTAATTAAA GTGAAGTCTT CCTAGAGAAA ATGACAACCTC AAATAATCTT AAATGTACCT
CCAAGAAAA AGCTGTCAAA GTGACATTTA GTAATAGAGT CACATTCTCT AAGGCCTTTG
CTTCTCCTTC TGATTCTTAT CATCTTTGAA GGTTATGTCA TGGGCTGACT TCAAATCAAC
TTTTAAATTT ATTATGGCCT TCTTTAAATG TGAGTTCTGA AGGTGAGGG CTTTATCTTT
CTTTTGCTCC AGATTTTTTT TACCGCGTCA TTACCAAGCA TCTTAAACA AACCTAAAA
ACAAAAATCT TCCTTGACCT GGTTTTTCCC ACTAGCTAAC ATCCTATTTT TATCTTTCCC
CTTTGCACTA AAGTTTTTTA AACGGATCTT TATACCCCTCT GTCTCCATTT TCTCATCTGC
TAACTTATAT GGCAAAGATT ACCACTGCCT TTCAACATAA TTGGCCAATC TACAGAAAGT
TTTCAAGTTC TCTTTTAAAT TGACCACCTC CTGCCTACCT CCCACCTTT GACATCTTGC

EE _____ EE

FIG. 6A(56)



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EE
TTCTCACTTG GCACCTTACC CAGTGTTCAA GATCCCTCC TTTAGGATGT CTTCAGAGCA
GCTACACAGT TGGTACTATA ATTTATACAT CCTTGTAAC AGGCTTGCT GGGATATTGA
TGGAGAGAAG GAGGAAACTG GAAGTAGTTC AGGCCAGAGC TAGGGAATT GACCCATCTC
CAGGTCTCAG GTCTGCAAGG GGAGCTCACA GCTTAACACA TGGAGTCTAG AACTTGTC
TGGACCTTGA CCAACACCAG CCCATGGAGT CCAATACAGT GCTCAATAGG GATTCCAGG
AAATTGCTAT ATTTATTCAA AGAGAACTTA CCAAGTGTC GCTACGTGTT GGGCATTTGT
CTAGGCACAG GGACCACAAA GATAAGACAT TGTAGCTTTC CTTAAGTTGC TCACTGAGTA
AATAGAGAGA CAGAAAGGTA AACAGGTAAG TGCAAAAATA CATACAATTC AGCAATAGTG
TTCATAGTGG CTATGGAGAG AACGCTCACT AACTTTGTTT AAACAGTTGT TCCTTCAAGG
ATTTGACATG GATTGATTG GAAAAGCATG ATACCATTTT TTGCAATTAA ACACAGGAAT
ACATAAATAA AATGCATCAG TATTTTTTAC AAATAGCTAC TAAGAGCTAC TAGAAAACCT
FF

FIG. 6A(57)



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FF _____ FF
GGGAATTCTT AAAACCTTAC CATGCTACTT GCTCTAAAAT ATTTTATTTT ATGTTATTTT
GTACATTCTT TTACCTACAC AACACCACT GTTTTCTTCA TTTTCTAGTC TATTAAACC
TCACACCCTT TCAGCATCTC TTAATTATTT ACTACCATCT GTTAGTTCTC CTGTCCTGAA
TGAAACAAAA ATGCAGAAT GTAAAACGAG GCGAACAGA TTTTGTGACAG GAAGTATTCA
GAGGTAGAAG GAAATAGTCA AGACACATAT GATAAACGAA AACATAATA ACTTTATACA
TAACAACCTA TAGACACATT TAAAAGTTT AAGATCTCAA GAGCTATGTC TGAATAGATA
GGAGTAAAAA CTCTATTAG TAATTAGGAA AATAACAAGA ACAGTGAATT TCTTAATGAA
TGGCATGTAA TCAAAAACGT ACTTATCGTC TAATTCAATA TCTTGAATGT TTTTATTTTA
TTTATTATT TTTTATTATT TTGAGACAGA GTCTTGCTCT GTCACCCAGG CTAGAGTACA
GTGGCGTGAT CTCAGCTCAC TGCAACCTCC ACCTCCCAGG TTCAAGCGAT TCTGCTGCCT
CAGCCTCCTG AGTAGCTGG ATTACAGAGG CCTGCCACTG CACCCGGCTA ATTTCTGTAT
GG _____ GG

FIG. 6A(58)

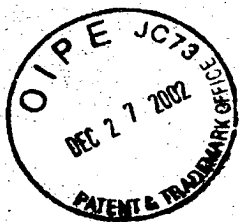


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GG _____ GG
TTTTAGTAGA GATGGGGTTT CACCATCTTG GCCAGGCTGG TCTTGAAGTC CTGACCTCAT
GATCCACCAG CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCCA CCAGCCTGG
TCGAATGTCT TTATTATTG AAGAGACAAC ATGGGCCCTTA AATCTGTCTT CTATTGACA
GACTTTGATG GAGTCAAATC CCAATGCTGC CACTTACTGA ACGGCCTTAA ATGACTTAGT
CTCTCTCAGC TGTCTTTCTG CATATGTAAG GTGGAATAAT GATGGCTTTC AAGAGGAAAT
AAACCTATGA AAAGTGTTGA GGATAGTGTT TGATATGAAA TAAGGATTTC AACAAAGTAGT
AGCTGCTATT GAAGATTTAA GAGTTATTTA TTACAACCTAT TTAATAAAAT TTTAAAAACT
AATACACTTA AATTATTAAA GAGCTTTGAA ATGGGCCAGG CGCAGTAGCT CCTGCCTGTA
ATCCCAACAC TTTGGGAGGC CAAGGTGGGC GGATCACCTG AGTCAGGAG TTAAAGACCA
GCCTGGCCAA CATGGTGAAA CCTGTCTCT ACTAAAAACG CAAAAATTAG CCAGGTGTGG
TGGCATGCAC CTGTAGTCCC AACTACTCAG GAGTTGAGG GAGGAGAATT GCTTGAACCT
HH _____ HH

FIG. 6A(59)



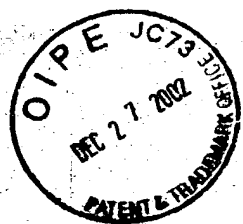
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HH
AGGAGGTGGA GGTGCAGTA ACCCGAGATG TCACTGCACT CCAGCCTGGC AACAGAGCAA
GACTCCATAA AGACAACAAA AGCTTTGAAA TTGTGTAAAT GAGTGTACC TATCTTCATT
TAAGAAATTC ATCTTTGTTC ATTTATTTTT ACTTGACATG AGAGCTTCCA GCAATTTTAA
ATTAAGCCCT CACAGATTTT ATGTCACCTGG CTATGTGATA AACAAATTAT TTGCTAAAT
AATATTCTTG CTTCCTTTTT AAGGAATTGT CTCCCTAGAA ACGGTTTGTA CCAACAATA
CACTGACTTT ACACAAAATC AGATCTGATT GGCAACAGTT GCAGATGTTT TCAAAAGATT
TTCATTTGAG AAGGGGCCCA TTTGGGTAT TTAGATTCTA AGAACTGAAA CTGCTTTGTT
CTGTTTTCTT GGCTTCTGGG AGAGGAGGAG ACATGAATC AGTAGCACC TTGGTATTTT
CTTTATCCTT CATTTCAATA CAGAAGATGC TTCATATGCA CAGTGGTGTC AGGTCACATC
AAAAGAAAGA GAAACAGTTT CTGGGTTTTT AATTTTCAAC CGGAAAGGAA AGGCACCCAT
TTTGTTCCTC TCTAATTAGC CAGTGCAATGA CTAGAGAGC AGGCAGATGC TTTGAAGGCG
II

HH

FIG. 6A(60)

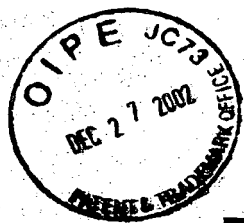


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||
TGGTAACACA GGTCTTCATT AATCTCCACG CAGACTGCG ACTTCTACTA TGCCTAGGCT
GAAGAAAATG GCTCAGGAAG ATGAACAATC TCACAGAGCC CTAACATACT GAAGCCAGGT
GTTATAAAGC ACAAGTCAAG AGGGTGAGAA ACTAACGTTT TTGAAATCTC CCACTTCTTT
CTACGTCAGA AGAGCCAAGC TGATTATTTT AGTTGGAATT TAGAAATTTT TAAAAATTAT
TCTAAAGTCA TGAACAAGCC TAATTATAAA GATAGTTGCT GTGAAGGTGC TGAAATAACT
CGATTTTACC AACCCCTCT TCTGGAGGAA GCCATAATGG AATCCTGTAC AATGTTCACT
CTACCAACGA ACTCTTGTTT TTCTAATGAG GAAACAGAGG CCCACAGTAT TAAACTATCT
TAACCAATAC AAAATGACTA GTGCTCTGGT CCTTTTATTA AGCACTAAAA TTTTGATCCA
ATAATAATC TGTCCATTAG AAGAGTTTC CCTAATGTAC TGGTCTAAC TTGTTCCCTT
CAAGGGCCA GTGTCCCGTA CACATAGCTA AATGGGACTT CTCTTCACT ACCATTACCC
AGAGGGCAGA ACCTAAAATG CTGTGAATGA CATCTGCTG TTCACATCTC AGCAGCA
|| JJ

FIG. 6A(61)

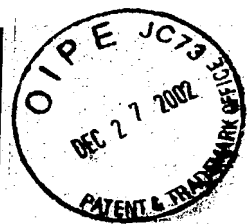


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JJ
GTGTTGCATT TGAGCTTCTG CAGGGCCACC CAGGACCTAT ATCTGCTCAG ATGTTTAACT
CATCTAATTC AGTGAACACT TCATTCTAGT TAACTGAACA TCTACTTTGT ACAAGGCACT
ACAGCGGTTT AGAGATGAAT AAAATCATGA GATTCCACTG TCTCCTATAA ACCATCACTT
TGGGAAATTT TAGAAATGTG GGTAAGCTCC AGGCCTTCCT GCAGCGTAGA AGTCACAAAC
TCAAATGCCT GCAGAGGCC AGCTGACAAC ATAAGTAAAT GATTCTGGCT GGGCGGAAAA
CAATTACGG TGGGTGGGTT TCCAGCTGGG GAGTGCACGC CTGTGTTAAA GGACAGCTGC
TACTCATTC CAGCCAACTG TGTTCCTCATG TAGAACTGCG GCCAGTGTA GCCAGTACCG
AAGATTCTC AGAAAAGCC GGAGATCTCA ATGTTAGTGT AAAATCTCTC AAATTTCCTAA
GAGGATTATA TGGGGCAAAG GTTCTCAGAT CAGTTTGCAG TCTCTTACTT AGCCCATGTG
CAGAGCAGTC GTAGAGGGTA GCATGCAGTG TCCTACATAA TAATTCCTTT TTATTTTATT
TTATGCCTTC CTCCTTCCTG TCTCTCTTTA ACCTTCTTC TTCCCTCAGG CTGGCTTCTT
KK

FIG. 6A(62)



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KK _____ KK

CCCTCAGCCT CGTCCGACCC CAGCCTGGGT TCAATGAACA TTCGGTAAAG GAACACGGAA
TGTC AAGCGC ATTAGAGACA ACCTTGAGAC ACATTCCCTCT TCGGGTAAGC ACTTCACCTGT
AGATTTTAA TTTTAAACAA GACAATGTTT ACGACTTGCT TCTTTCAGGG AAGAGCGATA
TCAATTTAG TGAACACTTC AAGGCTGAGA TACGCTAGGA GAGTCGTGTG GTGTTGCACA
GCAAAGAATT CCACTTTGAA GCGAGTGGA AAAAAAGCAT CAAATGCCAC ATGTA ACTCA
CCGCCGAAG GGTACATTG GTATGAAACC TGGGTTTAA AAGGACCGA ATAGACTAGC
CATTAAAAGA CCTGCGTACA ACCTCTCTCT CTCTCTTGA GAGATAATGT ATCTGGACAA
TAAACATGAA CAGAGTGGAG TCTATCCTGT TTAAACATT GCCTACTGTA CAGGCACCAG
GAGCTGAAG GTCAGAATAT TAGCAGTGGG AGCTTGATTA GAGTTGATGA GAGATGGTA
GTAGGAGGAA AGAGTGAGAT AGAGGAAGAG GACATGGGGG TTACCCATAA GTGGAGATA
GAAAAGTAGA ATCAGCTGGC CATCAAAGGG CGTGGGACTG AGGAACAGTA TGGCATGTAT

LL _____ LL

FIG. 6A(63)



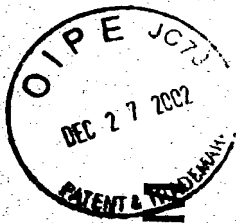
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LL
TAAATATACT AAGCGCTGAC ATTGGAGGAG AACTAGGAAG TTAAATGAAA TCAATAGGGG
ATGATGGAGA ATAGTTAGGT GTCAGGGAT TAGGTTATG ATAGAAATAC ATGTGAATAC
ATGCAGTATT GTCCTGGAAT ATGGTTAACA GTTGGTTCTC CTGGGGGGTG AGGGAAGCC
CTGATTGTA ATATTGCCT ATTTCTGTGG TGCAATACT CCCACCATGA CCAGTTTCAA
GCTATGAATG TTGAAGTCAC AGAAAGCAGG TTGGGAGGAG ATGCCGCACAT TTGTTCCCCG
GCAAGGTGGA AGGTAAGGAA GGTGAAATCA ACAAGGTCAA AGAAAACTCA AGATTTCGAG
GTGCCCTCAGG TCTGAGGGC AATGAAGTCT AGGAATGGCT GTGCTGAGGT AGCTGAAATA
GAAGTGACTG CAGAGGTCAT GAAGCTGAAG AGGTGAAAAC AGAAATTAGA AAGCAAACC
CCCACCGCC AACCCCCACC CCTGCAGCCA GTTCTCTGAGG GTGACAATAG AGGAAAGGT
GGAGATGAG TTCAGGTCCA GAAGCCATAG AAGCGAGTGT GACATTGTGC TCAAGTCA
CACATGTCAG TGTGGGGTGT CACATGCTGT TGTGAACCAT CATTATCAC CAATTATGGA
MM

MM

FIG. 6A(64)



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MM

MM

AGACCTCCTA TGGGCATCTT GCCATATGCA TTATAAAGAT GTGTAAGAAG ACATTTCCCT
C CACTTGGTG AGGAGAAATTA GGGCTGTACA CAGATACTGT AGAGTGCCAT GTGCCCTGGTA
CAGATAAGGT GTGTTAGAGG TTAAAAGATG AGGCTCTTAA TATTAATGAT AGATCCCACT
TACCTGAGTC TGA CTTACAA TGTGCCCTAGC ATTAAGTGTT TTACCTGCAT TCCCTTTGAC
G TTCAGAAC ACCCATTTTA CAGATAGGA AATTGGGTCA GAAAGTTCA GTAAC TTATC
CAAGGTCAAC ACAATTGGCA AGTGCCAGAG CTGAGCCAGG AACTGAGGTC CTCTAACAC
CAAACAGCTT GTCTCCCCAA TCACTGTGCT ATTTCCCTCC CCCAGAAGAT AATACTCTGA
TGGAAATGAA GGATAGTGA ATAGGAGATT CGGTGTTCCCT TTTTTTAAAA AAAATTCAGC
TTGCATATTC CTAAGAGTC AATTCATGTT TAAAAAAAT TTCCCTTG TG CTTGCATGTG
ACATGTATTT TTAGGATCTG CTGTTAGCAA GTGTATTTTT GTGTGATTGA GTGGGAGAGT
GGGAAAAGTT TTGCAGAGCT GTTGAAGCCA GAATGCAGG GGGCTGCGCA GCAGAGACTG

NN

NN

FIG. 6A(65)



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NN

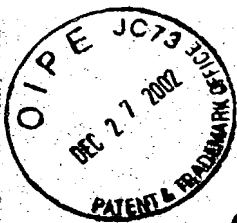
NN

TAAATCTCT GCCATCTCAG GTCTTGGAAC AAGCACAAAG AGATGTGTTT TCGATTATT
ATTCTATGTA CATCCCCAGA TGAATGACTA GTTAAAGGTA TTGTTAAAGC ATTTTAAATG
ACCCACTTCC AGCAGCGAAC AAAATCACTT GCTGTGCCAA GCCAACTGGC ATTTCTGAGA
TGATAAAACC ACAAGTGAG GAAAACGTTA AACTGCTAA AGCAAAAATG ATACACAATA
ATGGAGAAGG AGAAAAATTG AGCTTTATTG TCTGCCTAGG CAGATGGCTG ACCACTAGGT
GGGCTCGGC GTCACGTCCA GGGTAATTGG TTGCTGGGT GTTCTGCG AGGAAGATT
ACGCTTCAGC TCGGTCCACA AGATCCTGGC TCATTCTTTC CTAGATTCCA TTTCTGCTT
CCTCTCCATG ACTGGGTCTG ATGGTTGATC CAAACGGGCA ATTGAAATCA GAAGGTACC
TTTACCTTAA AATGCTTTTC TGGAAATAAA AGGACATGAA AAGTAACTAA GGACCGGATT
TCCTAGCCGT CTTCTCTCC TGCATGCGCA ATTTATCCCC AGATATAAAA TTGCTGCTT
TGATAATTAT ACCCTCTAAA TGAGGGGCAA GTGGCTAATT ATGCCACAT GTGGCCGATT

00

00

FIG. 6A(66)



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00 00

GCACTCCCCA TTAGCCCAATT ATGTGCTCAA TTATTGTGC ACATGAATAA TTGCACTCAT
GGAAAATAGC GCCCTCCTTT CAAATCCTCG TGCTTGGAGT GGCTGATGGA GTAATTGTCA
CACTGGAAAT GCACTTGGTG GGGAGGAAA GAGTATCAGA TACCAGGAAA CGCATAAGTG
ACCAGAGCTC GCAGATGTTC ACTGCCACAA ATGGCCTTAG GAGCCAGAGA GAGCGGAAG
GACCACAGGA TGGAACGGC CAGCCTGTGA GTTAGGAAGC CTGCTTCTGA AGTTGCCCTGG
GCAGCTCATG TCGGTGACC TTGGGCAAGT CATTAAGTTT CCTTCAGGTC TAACTGGTTC
TGCATACACA ATGAGGATGG TAATAACGCC CAATTCCCAT CACTATCGTG GGATGGATCA
GACTATTAA AAGATTTAC AATCTGCTTG GGTAAGAAGCT TTACATAAAT ATGAGGCATT
ATCATGTGCG TTGGTACATC TCCAATTATG AAGGAAGGT AATGACCCCTC CACAGCAATG
CAGGACTCCT GGTGTGGAGG GAGGAAAGT TTGAGAAGGA CAGGAAGCTT GTTGCCCCAG
CACTGATGTT TCTACTGAGG TACCAGAAA TGTCATGTGG TCATACAGAA TTCATTATT

PP PP

FIG. 6A(67)



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PP _____ PP
CATTCAACAA ACATCTGTCA ATTGTTACAC TGTCCCTGAGA ATTTGGAAAA ATGATGAAAG
ACTCAGTCCT GCCTTAGGAG GTCACCTGGCA CATTGGCCCG GCGCCCTGTT TTGGGCCCTTT
TACTCTGACC TGTGCTGATT TGCAAAATAGT GGGAAATTTT ATCTCAAGTC TATGAAATCT
GGCATGCATT TTCACGGTTT GATTGCCAGG TACATTGAT GGCAATGAGT CTTATAATGT
TTGGTTACCT TCATTTACCT AAGAACTGTG GTTGTGCTG TGGTTGTTGT TTTTGTGTTT
TTTGAGACGG AGTCTTGCTC TGTCATCCAG GCTGGAGTGC AGTGGCATGA TCTCCGGTCA
CTGCAAACTC CACCTCCCAG GTTCAAGCGA TTCTCATGCC TCAGCCCCCT CAGTAGCTGG
ATTACAGCG CGCACCACCA TGCCCGGCTA ATTTTGTAT TTTTGTGTCG GGACACAGAT
TTCACATGTT GGCAGGCTG GTCTCGAACT CCTGATCTCT GGTGATCCGC CTGCCCTCGGC
CTCCCAAAGT GCTGTGATTA CAGCGTGAG CCACTGTGCC CAGCCAGAAC TGTGTTTTA
ATGACAATGC TAAAAGTGG TATATGTCAC AGTGTGGGT GGGCTAAGA GGCACATTGC
QQ _____ QQ

FIG. 6A(68)

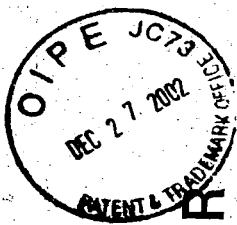


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QQ _____ QQ
TGCAGTGATC CATCATTCAT TTCCACCAT TCTCGCCTGG ATTAGCGCAG CAGCTCCCAG
AGAGGCACCT CACTTTGACC TTCTTCCTCA AAGACATTCT CTGTGACCTG CCTGGCCCTT
ATTACCTCTC TAGCTTTGCC ACTTCCCTAT GTCTCCATCT CCCCTCTCAC ACGTAGTAGA
AAGAGACTCT ACCTCATGGA GTAAGGAGAG GCTTCACAGA GGCAGGATTG CTATTAGTCT
TCAAAGATGA GGTATTTGCT AAATGAATGA GACAAAGGGA TTGGGGCCAC ATTACAGGGA
AATTGAGGTA TGTAAATAGCC TGGTGCAGGT TAAGAGTGTG GACTCTGAAA CCAGACTCAG
CCTGGAATTG AATCCTGGCT GTGTGATGTT GGGCCAGTGA CTTAACCTCT CTGTGCTTTT
ATTCACCTTT CTATAAAATG GGGATTATAA TAAACCTACC TTATAAGGTT ATTATAACAG
TCAGTAAATA TAAAAATAGA AGTTTTTGA TGATGACTAT CACATCAGTA AACACTTGTT
TGCCATTATT TTTATTACTT GACTAAAAAT ATACCAAAA GACCATCCA GAAAACCCTT
TAAGCTGCTA GTGCAGAAAG ATTCCCCTTG TGTTTGTGTG CTGGGGGTC AGTGTGCCT
RR _____ RR

FIG. 6A(69)



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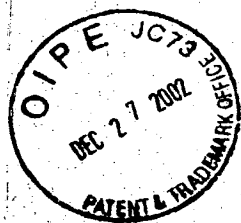
RR

GTGGCCCACT GGAGAGGAGA CAGCTATGGC TGGAGTGATT CTCAAACTTC AGAATGTCTA
AAATCATCAC ATGGACAACT TATTAAGGAA AGCAAATGCC TGGGCTCCAT CCTCAGAGAG
TCTCATTCAC TGGGTCAGGA TAGAGCCCAG GAATCTTTAC CTAAAGAAC CATCCCACCT
CCCACCTCAT ATGATCCCTTA TGCAGGTGAT CTGGGGCCCA CACTTTGAGA AATAGACTCA
GGTCAAAGTG GCTCTAACTG CATCTCATTT CTACCTGGC ATATCTAATA GTAGAGAAGA
AGACAATGCT AAGATTTTIG TTGGAGATCT TTTGCTGGGA TTGCTGCTTC ATTCATTAC
TCATTTATTT ATTTATTTAT TTATTTTGAA ACAGAGTCTC ACTTTGTCAC CCAGGCTGGA
GGGCAGTGGC ACAATCTGAG CTCACTGCAG CCTCAGGCTC CTGGGTTCAA TCGATTCTCT
TGCCTCAGCC TCCCGAGTAG CTGGGATTAC AGTCATGCAC CACCACGCC AACTAATTCT
TGTAATTTTA GTAGTGACAG CGTTTCACCA TGTTAGCTAG ACTGGTCTCG AACTCCTGAC
ATCAGGTAAT CTGCCTGCCT CGGCCTCTCA AAATTAGTAG CTGCAATTAC ACGTGTGAGC

SS

SS

FIG. 6A(70)

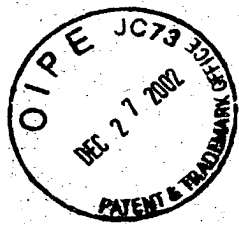


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SS
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TCTGACTGTC TGCAACAGTC TGCTTTGAAG CAGGCTGTG TTTACACTGG TCAGATGTGG
AATTGTGGG CACACTTAGC AGCTTCCTTC TCTAATTTT CTGTATTTTC AGGAGAACAA
TTTTAAAAA TTTAATAAAA ATGCCTTAAA AATTAAACATT ATTATAAGAT GAATCCCAT
TTTCTAATCT TGTAAATTAA AAACAATCAT AAGCATATGA GCACCTGCAC TTAGGGAATC
AAGGTTGGCA AAGCTAAACA CTTCCAGCTC TAGTGATTC GCGGCAATAC AAATGGAGCT
GGACTTTGGC CACAGTGCAA AAATATTGAT CTGTTGTTAG ATGCTCTGAA GTTTCAGAA
AGAATTGGTT CTGCCTGCTG TGCTTCAGTG CTTAAGGGAA GTGGTTCTC AAAATGTTAG
TTTTTAAGCC CAGCTTTCTT AAATAGGAAG ATTCTAATAG TAGCAAAAAT ATAACTGCT
TCTAGGTTA AAAAGGACCC AGCACACAAT GGTATCACA CACCTTTCTC CTCAGGTGAT
GAGTGGATGA GTGGCCTGGT GTATTCATA ACATCTCCCA GTCCAAATG CTAAAGCAAT
TT

FIG. 6A(71)



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TT
TGCTGAAAAG ATACCATGTG TACCGGAACC TTGCAGAGGT ATTTTGTGG CATAAAAAGA
AATATTGATC ATCTATAGTA AAAATGGTTC TACTTTAATA CTA CTGAGAA AAGATTTTCT
TTTCCCAGAT CTACATCCCTG AATCTTCATG AAGACAAGAT CCCCTAACT TCCACTAACA
CCATAATGTG TGCTGTCCCTT TGTAATGTAG TCCACAGATC TCATAAACTG TCAGAAATAG
CAGAGATTGT AAGGTCATCC ACTTCCCCCTG TAAGCCCTGC GTCCCTCACT TACATCCCCTA
ATAACGTCCCT CTAACCTCTG CTGGAGGCA GATTAGCTG CCAGCTGGGA AGAGCTCTGC
CCTAGTCAAC ATTTTATCT GTGGCTTCA GATGAGAACA CTGGATGCTT ATCTGAAAAA
AGCTCCTCAG GCTGGAGGA GGGATTGGCT CTAACAAGAT GCAATGTGAT AAGAATAAAA
GCGAAGCCAA ACTCTAGGCC CAAAGGCTCT AGCAACACAC TTTTGAGAAC CTGGAGAGC
AGTTTGGCT GATGCGAGCT TCTCCGCCCTG CTAAGTAGC CCATTCCATT TGGACGGCTC
TAGAGGCTGG CATGTTCTTC TCCACGTTGT GTTAATGTAC TCCAGTTTCT TCCTGCCATG
UU

FIG. 6A(72)

UU

UU

AACTGGCATG CCTGGGCTCC TCCTACCTTC CCCACTTTAA GTCTTCCCTC CCTCCTTCTG
ACCTTCCCAT TCCAGCCACA CTGGCCTTT GTCTGGTCCT AACAAACCAT GCCTTTCCTG
CCTCCAAGCC CTACACCTGC TATCCATCCC TCTGTCTGAG AGACACTCCC ACCCCTTCAC
AAAGCCTGTT TCTCATCCCTT CCAGTTCAGA TGTCTTCTCA GCTTGCCCTCA ACTGACCTCT
TTCAGCTATT CTCACCTTTT GTACTCTGTT CATTTCCCTC CTGGCAGTCA CCATAATTTA
TCTTTATTG AATCAATTTC TTAGTTGTAT TATTAGTTA TTGACACT CTGTCTCTCT
GTGCCTTTCT TATTCACCTGC AGGCTTTCTT ATGTAAGTAA TTTATTTACT TAAATTTTAA
AAAATAATT CAACTTTTGG CCGGGCACAG TGGCTCACGC CTGTAATCCC AGCACTTTGG
GAGGCCGAGG TGGTAGATC AGCTGAGGTC AGGAGTTCGA GACCAGCCTG GCCAACATGG
TGAAATCCCA TCTCTATTTA AAATACAAA ACTAGCCGGG CGTGGTGGTA TGCACCTGTA
ATCCAGCTA CTCGGGAGGT TGAGGGAGGA GAATCACTTG AACCGGGAG GTGGAGGTTG

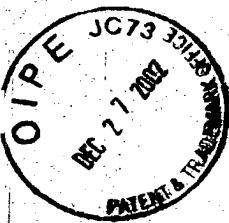
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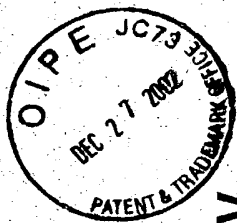
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FIG. 6A(73)

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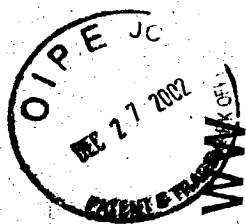
86/223

W

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CACCAATAGT GTATAAGCAT TCCCCCTTCT CTACAGCCTC ACTAGCATTT ACTTTTTTAA
AAAACTTTT AATAATAGCC ATTCTGACTG GTATGAGATG GTATCTCCCT GTGGTTTTCA
CTTGCAATTC TCTGATGATT AGTGATATTG AGCATTTGTT TATGTTTGT GGCTGTTCTG
ATGTCTTCTT TTGAGAAGTG TCTTTTCATA TATCTGCCC ATTTTTTGAA TGGAGTTGTT
TTGTGCTTGT TGAATTAACT TCCTTATAGA TTCTAGATAT TAGACTTTTG TTGGATGCAT
AGTTTGAGAA TATTTTCTCC CATCCATATG TTCTGTTTAC TCTGTTGATA GTTCTGTTT
TGTTATGTTT TGTTTTTTTG CTGTACAGAA GCTGTTTAAAT CTAATTGGTC CCACCTGTCA
ATTTTGTGTT TTGTTGCAAT GGCTTTTGAA TTTTAATAAT AAATTTCTTC CTAAGGCTGA
TGCCCGAAC AGCATTTTCT AGGTTTCTCT CTAGGATTTCT TATAGTTCAA AGTCTTATAT

WW

FIG. 6A(74)



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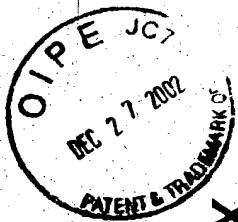
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TTCCCTCATG CTTATTTTGT CAACTTTGTC AAAGATCGGA TGAATGTAGG AGTGTGGCTT
TTTCTGGGTT ATCTACTCTG TTACATTGGT CTATGTGTCT GTTTTGTAT CAGTATCATG
CTGTTTTTGT TACTATGGTC TCATAACATA GTTTAAAGTT GGATAATGTT ATGCCCTGTC
TTTGCTGTTT TTGCTTAAGA TTGCTTTGGC TATGAGGCT CTTTTTCAC TTCATATGAA
TTTTAGAATA GTTTTTTCTA ATCTTTGAA AAATGACCTT GGCAGTTTGA TAGGAATAGC
ATTGAATCTA TAGATTGCTT TGGGCAGTAT GCTATTTTAA TGATATTGAT TCTTCCCTATC
CATGAGCATG GAATATTTT CCATTGTGTT GTGTCATCTA CTATTTCCCT TAGCAATGTT
TTTTAGTTT CCTGTAGAG ATCCCTCCTAG GTATTTCAAT TTTTATGTGA CTATTTTAAA
TGGGATTGCA TTCTTCATGT GGCTCTCAGC TTGAATGTTA TTGGTGTATA GAAATGCTAC

XX

XX

FIG. 6A(75)



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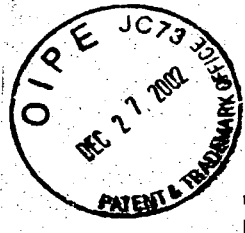
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XX

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GAGCCTTTGG CAAAGTCTGT AGTGTTTTCT AGGTATAGAA TCATATCATT AGCAAAAGAAA
GATAGTTGA CTTCCTCTTT TCCTATTGA ATGCCTTTA TTCTTTCCC TTGCTGATT
GCTCTCCAG TACTACGTTG AATAGAGTG CTGAGAGTGA GCATCCTTGT CTGTTCAC
CTCTCAGGG AAATGGTTCC AGCTTTTGCC CATCAATAT GATGTGGCC ATGGTTTGT
CACAGATGC TCTTATTATT TTGAGGTGA TTCCCTTTGAT GCCTAGTTG TCAAAGGCCT
TTATCATGAA GGGATGTTGG ATTTATTGA AAGCTTTTC TGGTCTTAT TTGGTGAATT
GCATTTATTG AATTGTGCAT GTGAGCCAA ACTTCCATCC CAGGGATTAA ACCTACTTAA
TCATGGTGTT AACTTTTGA TGTGCTGCTG GATTGGGTTT GCTAATTTT TTTTTTTTT
TAAGATGGAG TCTCGCTCTG TCGCGCAGG TGGAGTGCAG TGGTGTGATC TTGGCTCACT
GCAAGCTCCA CCTCCCGAGT TCATGCCATT CTCCTGCCCTC AGCCTCCCGA GTAGCTGGGA

YY

FIG. 6A(76)



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YY

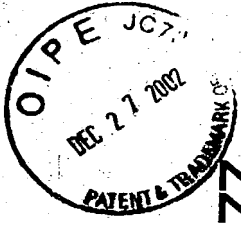
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CCAAAGTGGC TAGTATTTTT TTAATTACTA TTTTCTCA CCCTTGCTGC CATCTTATGA
TTTTCTAGTA TTTTGTGAA GATTTTGCA TCTATTTTCA TCAGGGATAT TGGCCTGTAA
TTTTCTTTTT TCATTTTCATC TTTACCACAT TTTTGTATCA GGTTCACTACT GGCTTCATAG
AATGAGTTCA GGAATGGTCC CTCCTCCTCG AATTCTCT GTAGAATTAG TACCAGCTCT
TTGTGTGTCT GGGAGAAGTT GTATGCCAAT AATTAAATG CAGTTAATAT TTACTGGACA
ATTTCCTCCA GATAATTGTA TATGATTTTT GTCCACCCCT GAGTTGATAC ATGTATTTTA
ATTGTATCAT GGTATGAAA GAGCAAGAGT TATTGGTCA CCTAGTCTTG CCTATAGATG
TTGCCTAATG ATTCAAAGTA GATATTTTGG GAGCCTTAAC AGGTGCCGTG GACTAGGCAG
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ZZ

YY

ZZ

FIG. 6A(77)



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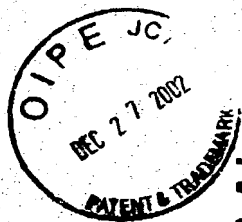
90/223

ZZ

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ATCAGCCTCC CCAGTAGCTG GGA CTACACAGG CTCACGCCAC CACGCCTGGC TAATTTTGT
ATTTT TAGTA GAGATGGGGT TTCACCATAT TGGCCAGGCT GGTGTTGAAC TCGTGGCCTC
ATGATCCACC CGCCTCGGCT CCCAATGTGC TGGCTTACA GCGTGAGCC ACCGCACCCG
GAGATTAGGC AATTTTATAT TCCCAAATAT CCAACTCTTC TGACCCGCTT TCTCAGCCTG
GGTGATCAG GCACAAGGCC TGTT CAGATT ATGTGGTCTC TGAAGATATG GCTCTCCAGG
GTTGACAAATG TGGATAAGGA TTCACCTGGT TTAGGATTTA CACATTGCGC TTGAATGTCT
GTTGCACCAA GTAGACAGTC CATCCCAACT TGGCCATTG GTCAGAGCTG TAAGGAGACA
AGGAGGTGG CAGCCGCTGC TGTGAACTGC TTGGACAAAG ACTGCCAAAT AGCTATCAGA
CAGTGTTAAC AACAGCTGAT TTAGGTTGA AGGGGCAGT CTCTTGGGC ACTTACTATG
CTGCATCATC CTCTTTGGAA AATGCTCTTC AGGTAAC TGC CTAACAGACT GAGAAAATAA

AA'

FIG. 6A(78)



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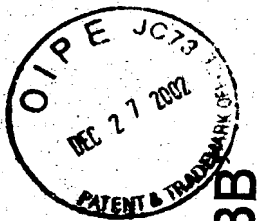
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AA' AA'

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CAGAACTGGA TTGTGAAAGG ATTTTAAAT TTTTATATT CATTCAGGG AACATTCAAT
TATCCATCC TTCTCCACTC CCACCTGTCT GTCGTTGTCT TTGTCTCTGT CTCCCCACCT
CTCTCTCTAG ACACACACAC GCACACACAC ACACACACAC ACACACACAC ACACACACAC
ACACACACAC ACACACACAC ACACACACAC CCTATTTCAT TGCCAACAGT AATAGAGTTG
CTTCTTTACT TCTTGGAGAG AAAAGCCTCA ATCTGAGGAA GCTGTGCTGA CTAGCCTTGC
TCTTAATCAT GGAGACAATG CTTTATGCCT TTATCTTTGC ACAGCTGAAA GCCATGGCAG
AAGCAGTCCT CTAACGAAA TAAAATAGAA AGGTTCTCTGC TAAGCCCTGG CAAATGCAGC
CTTCTATCCC TCCCCCAACA CTCACAGCTT CTGAGCAAGA TGTGTCTGCC TTCCAGGAGC
TGGGTGATGG GCAATAATGA GCAGAGCCAC GTGAAGGAAA GATGGGTGAA GAAATGTGTG
TGGAGTCATG CTGGCTGCAC TGACCATGAA ACAAGGATC TACCCCTCTA GTAACTGCCC

BB' BB'

FIG. 6A(79)

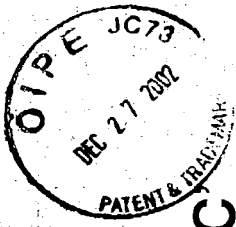


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BB' _____ BB
TACTCCTTTG GTAACGTTC TGAAATTATA ACTTGCCAGA AGTTCAGAAG GACCTAGTGC
AGGTATTAGA GGAATTCGT AAGATTGAGC CATTATTCC TGCACAGATA CATAATAATG
GACACGGGCC ATGGTGGCCA GCATTCTTGC TCTTGACAAT GGTGAAGGA AGGGTTGTAG
GTCATGGCTA TGCTCTCAGA ATTATAATGG AAAGAAACAG CTCCTGAGTG TTACTATAGA
GCCAAGGGCT GTGCTAAACA CTTTACCATA TGATGACATC TTTTCTCAC AGGTATCAAA
AAACAATAGG ACATACCGGA TAGCTACAAT CTTTGGGCCC CTGCAAACAC AATAATGTGT
ATTCTCTTCT TCAAATCCTA CATATTGCTA CAAACTGTAT CCCTGAGGCA TATTCATTGT
AAAATAAAA CATATAAAGT ACTACTTTTG TTTTGTGAGA TGGAGTCTCG CTCTGTCACC
CAGACTGGAG TGCAATAGCA TGATCGTGGC TCACTGCAAC CCCCTGCTCC TGGGCTCAAG
TGATTCTCCT GACTCAGCCT CTCAAGTAGC TGGATTACA GCGCACGCC CCCATGCCCTG
GCTAATTTT GTACTTTTAA TAGAGACCAG GTTTCACCAT GTTGGCCAGG CTGGTCTCAA
CC' _____ CC'

FIG. 6A(80)

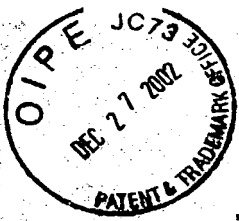


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CC' _____ CC
ACTCCTGACC TCAAGTGATC CACCTGCCTC GGCCTTCCAA AGTGCTGGCA TTACAGCTGT
GAGCCACTGC ACCCGGCCCA TATAAAGTAC TACTAATGTA ACAGGGTGCT AGTCCAGACA
GTGACCACAC GTGGTGTTCA TTGAAGGCTG GACTAACAC TCCAGCCTCT CCGCCATCAC
AGAGTGATGA CTGCCCTTCCC TGAAGCAAAG CTTCCTGGTC AAGGAAAGGC CAGTAAGTGA
CTGCTCTTTG TTGTATACAT GTTAGATGAT CAGGCCCTCAA GAAAAGTATA AAGAGATCTT
TGTGCTCTCT GGGACTCAA AAGCTGCACT CTTTGGGGA AGGATAGCCA GTAAAAGTG
GCCCAGGTAA AGAGGGCCTG GTACACCTGG TTCTGCAAGA TGGTAGACAC AAAAATGAGA
GCTACATTG GAGCTTATGT GCCCCTAACT CTGTACATAA CCTGCAAGAT CTAATTACTA
ACAACTGGAA TCTTGGAAC ACCTGTAGTA CATCCTTGGC TAAGGTTAGC CCCAACAGAG
AGGGCTCTCC TCTTACAGAG AACCATTACA TTTGTGCCTT CATCCTAGAG TAGAAAAGGC
ATGATCAGAC TACTAAAAG ACATCAGGAA AGGCCTGTG ACATCTGAGG GAAGTGTTG
DD' _____ DD'

FIG. 6A(81)



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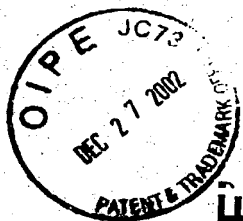
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DD' _____ DD'

CCCTCTCTGG GATGTTGGTT CGGGAAGAGG GGCATGGAGG AGTGCCTGCT TTAGATGGTC
ATTCAGGAAC CCAGGCTGAT AGTGAGAGGT GAAGCCAGTT GGGCTTCTGG GCTAGGGGGG
ACTTGGAGAA CTTTGTGTGTC TAGCTAAAGG ATTGTAAATG CACCAATCAG CACTCTGTAA
AATGGACCAA TCAGCAGGAT GTGGGCAGGG CCAATAAAGG GAATAAAGC TGGCCACCAG
AGCCAGCAGT GGCAAACTGC TCAGGTCCCC TTCCACGCTG TGGAAGCTTT GTTCTTTTGC
TCTTCACAAT AAATCTTGCT GCTGCTCACT CTTTGGGTCT GCACTATCTT TATGAGCTGT
AACACTCACC GTGAGGGTCT GTGGCTTCAT TCCTGAAGTC AGTGAGACCA CAAACCCACT
GGGAGGAACA AACAACTCTG GACACGCCAA CTTTAAGAGC TGTAACATTC ACTGCCAAGG
TCTGCGGCTT CACCTCTGAA GTCAGCGAGA CTATGAACCC ACTGGAAGGA AGAAACTCCA
GACACATCTG AACATCTGAA GGAAGAAACT CCAGACACAC CATCTTTAAG AGCTGTAAACA
CTCACTGCAA GGTCTGCGG CTTCACTCTT GAAGTCAGCA AGACCAAGAA CCCACTGGAA

EE' _____ EE'

FIG. 6A(82)

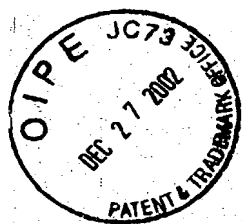


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EE' _____ EE'
GGAAACAATT CCGGACACAT TTGGTGACC CAGATGGGAC TATCACCAAG TGGTGAGTAC
CATCAACCCC TTTCACCTGT TATTCTGTCC TATTTTTCCT TAGAATTCGG GGGCTAAATA
TTGGGCACCT GTCAGCCAGT TAAAAGCGAC TAGCATGGCT GCCAGACTTA AGAAACTAAA
GACACGGGTG TCAGACTTTC TGGGAAAGGG CTCTCTAATA ACCCCCAACT CTTTGGAGTT
GGGAGCGTTG GTTTGCCCTGG AACCAGCTTC CACATTTTCCT GTACTTCTGG GCTGAGACGA
GGGTCAACAT AGAGGAAAGC CATTAGCTC TGGGGTCCC GAGCAAGTT GGTGACCCT
GTGGCCATGA TCACAACTCT CGAAGTCATG TTGCCCAAGC GAGACTCACC CATCTATCCT
ATCTATCCTG ACTCTTGCTT CCTGGGTCCT AATGCCCTGGA AGACAAAAC TCTCTTGTC
TCTGTCTCC AAGGCTAGTC CCACTTCTAA AAACCACTCC CTGTCTCTGG TGCCTTTCTA
GTTTCTCCTA TAAGAATGAT TTCTAGTATA AACTCCAGGA CTCTATTCTC TTCTTTAGGC
ACCCGGGCTC ACCAATCAGA AAGCCATAAT TTTTGCCCAA AGCCCATCT TAGGGGGAC
FF' _____ FF'

FIG. 6A(83)

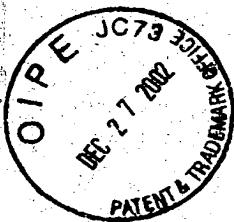


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FF' _____
TATCTGGAAT TTTAGGATCC CTCCTCAGAC AAGCAGGCCT AACAAAAGCT ATTCTGAAG
CTAGGATATG GGGAGCCTCA GAAATGATAT CCTTCCTATT CAAGTGAGGA CAAAAGGCAT
CACTCTTCCA ATTCTGGAGA TCCCTTCCCT CCCTCAGGGT ATGGCCCTCC ACTTCACTTT
TGGGGCATAA CGTCTTTATA GGACACGGGT AAAGTCCCAA TACTAACAGG AGAATGTTTA
GGACTCTAAC AGGTTTTCAG GAATGTGTCG GTAAGGGCCA CTAAATCCGA TTTTCTCTCG
TCCTCTTTGT GGTCTAGGAG GACAGGTAAG GGTGCAGGTT TTCAATAATG TGTGTGAAG
GGCCACTAAA TCTGACATTC CTTGGTCCTC CTTGTGGTCT AGGAGGAAA CTAGTGTTTC
TGCTGCTGCA TCAGTGAGCG CAACTATTCC AATCAACAGG GTCCAGGGAC CATTGTGGGT
TCTTGCGCAA GAGGTGTTT TCCTGCTGCA TTGGTGGGCT CAACTATTCC AATCAGCAGG
GTCCAGTGAC CTTTGCGGGT TCTTGGGTCG GGGGTGGGG GGAACAAACA GACCAAACT
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GG' _____

FIG. 6A(84)



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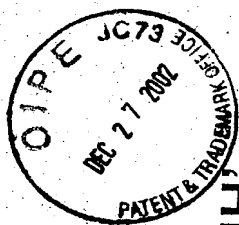
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GG' _____ GG'

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TATTCTGCAC TATGGCCCTGG TCCCAATATT CTCCTCTCTGA TGGGGAAAAA TGGCCACCTG
AAGGAAGTAT AAATTACAAT ACTATCCTGC AGCTTGACCT TTTCTGTAAG AAGGAAAGCA
AATGGAGTGA AATACCTTAT GTCCAAACTT TCTTTTCATT AAAGGAAAAAT CCACAACTAT
GCAAAACTTA CAATTCACAT CCCACAAGAA GAACTCTCAC TTACCCCCCAT ATCCTAGCTT
CCCTATAGCT CCCCTTCCCTA TTAATGATAA GCCTCCTCTA TCTCCCCACC CAGAAGGAAA
CAAGCAAAGA AATCTCCAAA GGACCACAAA AACCCCTGGG CTATCGGTTA TGTCCCCCTC
AAGCTGTAGC GGGGAGGGG AATTGGCCC AACCCAGGTA CATGTCCCCCT TCTCCCCCTC
TGATTAAAG CAGATCAAGG CAGACCAGGG GAAGCTTTCA GATGATCCTG ATAGTATAC
AGATGTCCTA CAGGCTAG GGCAAACCTT CAATCTCACT TGGAGAGATG TCATGCTATT
GTTAGATCAA ACCCTGGCCT TTAATTAAA GAATGTGGCT TTAGCCACAG CCCGAGAGTT

HH' _____ HH'

FIG. 6A(85)



HH'

HH'

TGGAGATACC TGGTATCTTA GTCAAGTAAA TGATAGAATG ACAGCTGGGG AAAGGGACAA
AGTCTCTCCC GGTGAGCAAG CCATCCCTAG TGTGGATCCC CACTGGGACC TAGACTCAGA
TCATTGGGAC TGGAGTCGCA AACATCTGTT GACCTGTGTT CTAGAAAGAC TAAGGAGAAAT
TAGGAAAGAG CCTATGAATT ATTCAATGAT GTCCACCATA ACTCAGGAAA AGGAAAGAAAG
TCTTGCCCTC CTGAGTGGC TACAGGAGCC TTAAGAAAAT ACACTCCCCT GTCACCCAAC
TCACTCAAGG GTTAATTGAT TCTAAAAGAT ATGTTTATTA CTCAATCAGC TGCAGATATC
AGGAGAAAGC TCCCAAAGC AAGCCCTTGG CCTGAACAA AATTGGAGG CATTATTAAA
CCTGGCAACC TTGGTGTCT ATAATAGGG CCAAGAGGAG CAGGCCAAA TGGAAAAGCG
AGATAAGAGA AAGCCACAG CCTTAGTCAT GGCCCTCAGA CAAACAAACC TTGGTGGTTC
AGAGAGGACA GAAATGGAG CAGCCAATC ACCCAGTAGG GCTTGTGTGTC AGTGTGGTTT
GCAAGGACAG TTAAAAAAG ATTGTCCCTAT GAGAAACAAG CTGCCCCCTC ACCCATGTCC

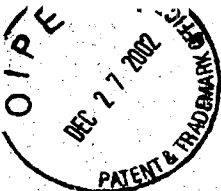
II'

II'

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FIG. 6A(86)



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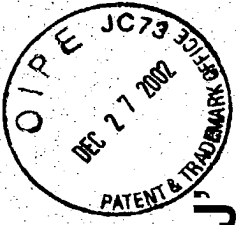
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II' _____ II'

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CAGAAGCCCC CAAGCAGATG ATCCAACCAC AGGACTGAGG TGCTCAGGGT TAGCGCCAGC
TCATGTCATC ACCTCACTGA GCCCTGGGTA CATTTAACCA TTGAGGGCCA GGAATTGAC
TTCTACTGGA CACTGGTGG GCTTTCTCAG TGTTAACCTC CTGTCCCTGGA CAGCTGTCCT
CAAGGTCTGT TACCATCCGA GGAATCCTGG GACAGCCTAT ATCCAGGTAT TTCTCCACC
TCCTCAGTTG TAACTGGGAG ACTTTGCTAC AGATAGTAAG TATGCTTACC TAATCCTACA
TGCCCATGCT GCGATATGA AAGAAAGGA ATTCCTAAC TCTGGGTGAA CCCCATTAA
ATATCACAAG GAAACTATGG AGTTATTGCA CACAGTGCAA AAACCAAGG AGTGCGCGGT
CTTACATTGC CGAAGCCATC AAAAGGGAA GGAGAGGGA GAACTGCAGC ATAAGTGGCT
GGCAGAGGCA GGAAAGACA AGCAGAAAGG AAAGAGAGAA AGAGCAGAAA GTGAGAGAGA
AAGAGAGATA GGAAGTGATA GCAAAGAGGG AGTCAGAAAG AAAAGAGAGA GGAGAGAGAG

JJ' _____ JJ'

FIG. 6A(87)



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JJ' _____ JJ'

AGGGGAAAG ACAGAGAGAG ACAGAGGAAG AGACAGAGAG ACAGAAAGAG AGAAGCAAAG

AGAGGAAGAG ACAAGAAGG AGTCAAAGAG AGGGAAGAG AAGTAGTAA GAAAAACAG

TGTACCCAT TCCCTTAAAA GCCAGGTAA ATTTAAACC TATAATTGAT AATTGAAGGC

CTTTCTGTT AACCTATAA TACTCCCAAT ACCACCTGT TGTTCAGTGT TAAACAAGG

TTATTAGCC AAAAGCCACT GAGGCCACTG ACAACCCGTA GCCTTCTTAT CCAAAATCCT

TAACACAGCA GGTTCCTTAA CAGGGATCTA ATCTTAGTGC GACCAGACTG GAGAACTGCC

TTCAGGACAG GATGATAGAT GGTTCCTCCC AGGTGATTAA GGAAAAAGAC ACAATGGGTA

TTCAGTAAGT GATAAGGAAA CTCTTATAGA AGCAGAGTTA GGAAATTCG GAAATAAGTG

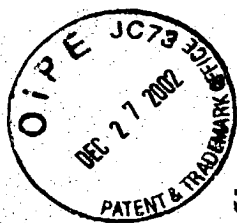
GTCTGCTCA ACGTTGAAGC TGTTTGCTGT TTGCACTCAG CTAAACCTTA AAGTACTTAC

AGAATCAGGA AGGAGCCATC TATACCAATT CTAAGTTAAT ATGCACTGAA CGAGGTTTAA

TTAATAGCAA AGAAAAATTAA AATCTCAAAC TTACGAGGTT TTCAAGTAA GTAAAGTTTG

KK' _____ KK'

FIG. 6A(88)



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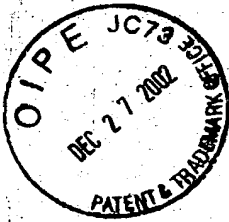
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KK' _____ KK'

GTAAAAGTTA ACAGCGTAAC ATGTATTATC CTAGTACCAC ACATTCTCTC AAAGGATTG
CTCAGACAGT TTGCAAAAAA GAACGAAATC TGTCCCTTACT CTACAATCCC AAATAGACTT
TTGGCAGCAG TGA CTCTCCA AAACCGCTGA GGCCTAGACT CTCATGTTGA GAAAGGAAGA
TTC TGCACTT CTAGGGGTA GAGTGTGTT TTTATACTAA CCAGTCAGGG ATAGTATGAG
ATACCACCCA GTGTTTACAG GAAAAGGCTT CTGAAATCAG ACAATGCCCTT TCAAACTCTT
ATACCAACCT CTGGAGTTGG GCGACATGGC TTCTCCCCCTT TCTAGTCCCT GTGACAGCCA
TCTTGCTAAT AGTCGCATT GGGCCCTGTA TTTTAACTT CTTGGTCAA TTTGTTTCTT
CTAGGATCGA GGCCATCAAG CTACAGATGA TCTTACAAAT GTAACCCCAA ATGAGCTCAA
CTAACAACTT CTGCTGAGGA CCCCTGGACC GACCCGCTGG CCTTTCAAT GGCCTAAAGA
GCTCCCCCTT GGAGGACACT ACCACTGCAG GGCCCTTCT TCACCCCTAT CCAGCAGGAA
GTAGCTACAG CGGTCATCGC CAAATCCCAA CAGCAGCTGG GGTGTCCTGT TTGAGGGGG

LL' _____ LL'

FIG. 6A(89)



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LL' _____ LL'

GATTGAGAG TGAAGCCAGC TGGGCTTCTG GGTGAGGTGG GGAAGTTGGAG AACTTTTGTG
TCTAGCTAAA GGATTGTAAA TGCACCAATC AGCACTCTGT GTCTAGCTAA AGGATTGTAA
ATGCACCAAT CAGCACTCTG TAAAATGGAC CAATCAGCAG GATGTGGGCG GGTCAAATA
AGGGAGTAA AACTGGCCAC CCGAGCCAGC AGTGGAACC CACTCGGTC CCTTCCACA
CTGTGGAAGC TTTGTTCTTT TGCTCTTCAC AATAAATCTT GCTGCTGCTC ATTCTTTGTG
TCCACACTAC CTTTATGAGC TGTAACACTC ACTGCGAGG TCTGTGGCTT CATTCCTGAA
GTCAACAGAC CACGAACCA CTGGAAGGAA CAAAGAACTC CCGATGTGCT GCCTTTAAGA
GCTGTAAAC TCACTGCGAA GCTCTGCAGC TTCACTCCTG AAGTCAGTGA GACCACAAAC
CCACCAGAAG GAAGAAACTC TGGACACACC TGAATATCTG AAGGAACAAA CTCCAGACAC
ACCATCTTTC AGAGCTGTAA CACTCACCGC AAGGTCTGT GGCTTCATTC TTGAAGTCAG
CAAGACCAAG AACCCACCGG AAGGAACAAA TTCCAGACAC AGTAGGAAT CTGTATTTT

MM' _____ MM'

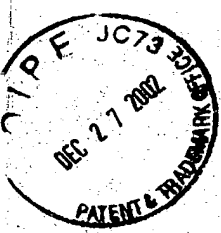
FIG. 6A(90)

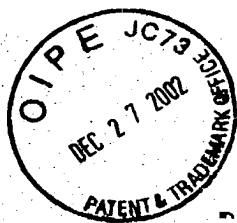
MM' _____ MM'

GATCTGTGGC TTCCAGGGTT ACTCCAGTCA TTGAAGTCTC CATTGCAGCC TTAAGGAAAC
AGAGAATGGT TTGGAGGAGC ACATGTGGGA ATTGTTATGG ACCAGGCTTG AGATGCACAT
AGGGCATTTC TGATCAAACC TAGCTGGAAG CAGGGCCAGG AAATATAATC TAAGGAAGAC
AGTTTTTGTG GACAGTAGTA GTCTTTGTCAT CTGAGACATG TAGATTATCA AGCAATTAAAT
TAGAAAAAAT ATAGCCAGGT GCGATGGCTC ATGCTGTAA TCCCAGCACT TTGGGAGGCC
AAGGGGTGTG GATCACGAGG TCAGGCGTTC GAGACCAGCC TGGCCAAACAT GGTGAAACCC
CGTCTCTACT AAAAAATACAA AAATTAGCCT GGTGTGGTGG CACGCATCTG TAATCCCAGT
ACTCAGGAGG CTGAGGCAGG GGAATCTCTT GAACTTGGGA GGCAGAGGTT GCAGTGAGCC
AAGATCACAC CACAGCACTC CATCCTGGGT GACAGAGCGA GACTCTGTCT CAAAAAATAA
AAAAAATAAA GAAAGGAAA ATATAATCAA GAATATTGAC AGGTAACATT TATTCAACAC
TTACTATGCA CCAGGCAATA CACTAAGTGT TTTACATGGA TTAATCATT TAATCTTAAC

NN' _____ NN'

FIG. 6A(91)





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NN'

NN'

AATAGCCCTA TGAAGTCAGT GCTGTTATTA TCTCCACTTT ATAGATAAGG AACTGAAGT
ACAGAAAGGT CAAGTAGAGA AATGGCCATG CTTCATTTCT CAGTTTTTGA AGCAACTGTT
ACAGGAATCT GGTGTGAGAA ATGCTCTAAC AAGATGTGAG TCAGGGGTTG GGAGTACTG
AGTCTGAGTT GGCAGTTGG GGATGGAAG ATGGATGAAG AACAGCTTGA CAGAGAAGCT
GACACTTGGC AACTCTGTGG GACCTTGAAG GGTAGAGGG ACTTCACCAA AGAAACTGGT
GGTCAGGGAT ACGGAGGGT CACGGCAAGG AGGAAAGGA AACTGTACCA CAGCAGAGAG
TCTGAAGCTA CTACAGTGTA GTTCAGCGTA TAAAGAATAA TTATTTTAAG GTAAACTTAT
AACCTCATGC AAATATAAAA TGAACACGTG TCAAAGATCT TATTTAATTT ATTAATTAAT
GAGGGAACCT GTAAGATGTT ACAGCCAGTT CAAAGGATAA TTCAAATAAA TCCATGCACA
TATGTAGGCA ATAAGGAATG CTGAAATGAA TTTAAAAGTA GATGTAAACT GATTATCCA
CAGAGAAATA ATCAGTTGCA TTTCACATAA CAAATTCAG TTGCTTTTCT ACAGAAGGAA

OO'

OO'

FIG. 6A(92)

00' _____ 00'

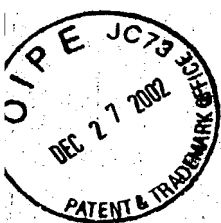
TTGTTTGCAT CATTACCAAT TTTTCTACAA CTAACAGAAT TATAAATAA CTCAAACACA
ATGAAAGGCA GATATAACCC ACAATGGTAT GATAGATACA ATATCCACAT CCAGGATGTT
TTTTTCTCAT TTCAAAGTCT TTCACAAAGTT TTCCTGATAA GGGAGTGTC ATAATACTGT
ATGGCAGGCA ATAAGACTGG ATGGATGGTT GGGCCAGGT TTAAAGGGT AATAAATGCC
ATGTAAGGT ATGTGCATAC TGTGCAACAT GTCGGGGAAT CTCAAATTAT TGGTAGAGTA
TGTAAGAAAC ACTTGTGGAG CTTGTTAATA AATCAAAAT CCCAGACCCA ACTCCTCAAG
GGCTAATAC AGTAGGTTTG GAGTAAAGCC TGAAAATCTG CAATTGTGCA AAAAAA
CCCAGGTGAT TCTGATACAC TTTGAGAAGC ACTGGTGGA CTAATAGTCA CTGAACGTTT
TTGAGCAGG GAGAAACCTG AGGACGTCTA TGTTGCAGCA GTGGAACTT GATTAGAAGT
AGGAGAAGAT GCATGGTCTT AAAAGAATGC AAAATGATGG CTAATATTG AGTGCTTATG
ATGGGCCAGG GGCTGTGCTA GCGCGGTGC ACACATTCAA TACGATGGAA GCCTGTACCA

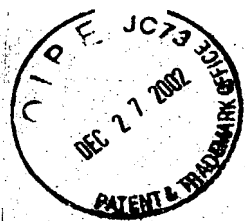
PP' _____ PP'

FIG. 6A(93)

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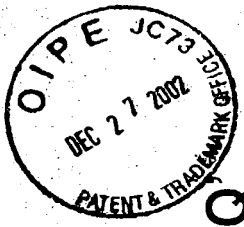


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PP' _____ PP'
GTCAGTATTA GTGGGGTATC TTAAAGAGTG ACCAGAATTA AGGGGGGTTT TCACCAAAGC
CTGAGGACTG AGCCTCCTCA TCCTAAATTC AGACACAATG CTGTACCTAT GCATTTCCT
CCAGGCTGTT CCTGGGCCCTC CAGGGAAGTG CCCAGGCTCC TGATAAATAG GGAATCCCAA
CAACATAAAG CCTGGATTTT GGAATCTTCT GAATGTTACT CAGGCTTTCT AGTAACTGTG
GAGATCTGAA TAATAACACA ATTCTAAGTT CCCCTACTCA TAAAGCTGCT CATCATTTAG
ATGGGGTAAA GCACCTGAAA TACAATGAGC ATCACTATTT TCATTTCATCC ATGAAATGAA
CATTCCGGGG AGATCAGTAA GTTGATGTAT CACCCTTGAA CAGGCAAAA TGAATACTCA
CCAGGAATAT GTGGTATTTT AAAAAGAAG CAAAGGAAG AATAGTGGG ATGGGCAAA
AACTTTAAAT AGATTCCTCC AATCATATAT GCAATATGAA GATAATATA TTATCATTTT
AATTGAGTAA GTACTCATAG AGCCCTCACT ATTTGAAAAT GAACTGCCTC CTAATTGTTA
TTGTGCAAAAT GTGATACATT AAACCTAAGC TATTTTAATA AAACATCCAT TTTCGGAAGC
QQ' _____ QQ'

FIG. 6A(94)



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QQ'

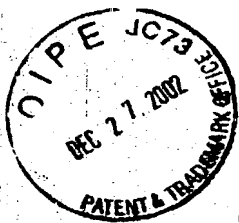
QQ

TG TAGTAGGT TCTCCAGGT CAGATTGAT AAGCCATAAA GAACAAATGC CAACTCCTAT
TTTTCTATGG TGCTGGGAAA TAAGAGAGAA ATGTGTAATT CAAAGCAATC ATTTAATTTT
ATCCAATAGC TTGATTCTCC TCTCTCTTCT AGCCTTTTAG CTAAGCTGTT ACCAAGTAAC
CACACTAGTT GGCTTGAGTC TTACCACTGT TTCCCTGACC CCACAGTGGA GAGACTGCAT
CTGTTAAAGA GCAGTTATGT AACCATGGCT ATGCTGAGCT GGGATTCCCA AGGCTTAGGT
TCTTTCTGTG AATGACCTTC ACCAAGACAC CTGAGGTCTG TGTGGAACCA CAGGCTTGTC
ATCTCTAAGG CAGAGTTGAT AATCCATCT GTTCTTGAG CCCACACTGA GAAAAAGATT
ACATGACTGC AGTTATTGA ATGCCCTCATG GAAAGACGTC TTATAAATAT TATAATTAAT
GTTATCATTA AGTAATGCTT CAATGCAGAT CTTCCAAGTA TAAATATCAG CTGAGTAAGA
AGTCAATCTT CCCTGAAGCA AAATTGAAAT TTGTAAATGC GATTCTGGG AGCTTATTTT
GTAATACATG ATCCAGAGT GTCCATAACA CACACAATTG TCTTTTTCCT CCTACATGGG

RR'

RR'

FIG. 6A(95)

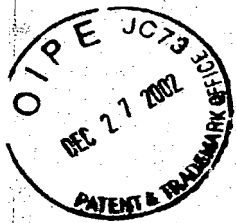


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RR' _____ RR'
CTATTACAA CAAATTGGA CTTATAATGT TTATTCCAG GGATGACTAG AACTTTAATA
ACAAACCTTG GCCAGGCAT AGTGGCTCAT GCCTATAATC ACAGCACTTC GGGAGGCTGA
GGCTGGTTAG ATTACTTGAG GCCAGGAGTT TGAGAACAGC CTGGCCAACA TGGCAAAACC
CTGTCTCTAC TAAAAATACA AAAATTAGCC GGTGTGTGTG GCGCATGCCA GTAATCCCAG
TTACTAGGTA GGCTGAGGTA CGACAATCGC TGGAACCTGG GAGCGGGAGG TTGCAGTGAG
CTGAGATTGC ACTACTGCAC TCCAGCCTGG GTGACAGAGA AAGACTCTGT CTCAAAAAAA
AAAAAAAAT AATAATAATA ATAATAAACC CTGATGAAAG GTTTCATAAA TGTTTTCATC
TAATGGTTTT CTTGACAAAT AAATTTTCTA TATAATGTCA GTTCATAAAA AACTGAGAA
CGACCACATG TCATATCGAC TGCTTAAAG AAAATACGTA TATTACAAA CATATACACA
ATACTGTCTT TTGTCTGGTT AGTTAGAGG TTAGATAAAC TGCAGTATGT TGTAGTGGAC
AGATCATAGA ACTAGGAGTC AGGATGTCTG GATTCCTAGG AAGCAATGAA TAGGTTGCAC
SS' _____ SS'

FIG. 6A(96)

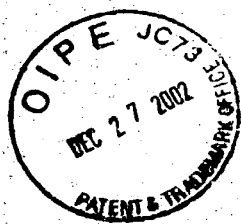


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SS' _____ SS'
GGTGCAGCTC AAGGTATTTC AAAGTGTGGT GCCCAGACCA GCATCATGAG TATCCTCAGG
GAGCTTGTTA GAACTGCAGA TCCTTTAACT CATTGAATCA GAATCCCTAG GTGTGGGGCC
CTGAAATCTG TATTTTAGCA GGCCTCTCTGG GATTGTGATG TGCCTTAGAG TTTGACAACC
ACTGGGTAGC TGATCCCTGAC TTAGACTTAT CAGGCATGTG ATCTTGAACA AGTCACATAA
TCTCACTGAG TTCAGTTTTTTC TTATGTTTAA AATAGGCCCA ATAATATCTA TTTCACATGG
ATTGCTTTGA GGATTAGGCA AGAGATCTGT AACAGACACT GTAGAACAGT GTCTCTGGTC
TACAGCTGAC CTTCCATAAA TGGTAGTTGC CTTGATTCTC TGCTCTGCCA CATAATAGCT
GGTTAACTAT GAGCAAGTAA TTTAGTTCTT CTCAGTTTAG TTTCTTCCCC TGTAAGAAGAA
GGAATAAAC TGTATATCTC CATTCTCTGAA TTGCTATAAA AGTCATTTAA TTATGGGCAT
TGAAGCTCTT TGTTCACTGT ATAAGGACTG TACATCTAAG GGATTAATGA GACCAGGCTT
ATGATTTTAA GCATGGAGTA AATAGTAACA CTGACTCTGT TCTATGAACC ACATGGAAAC
TT' _____ TT'

FIG. 6A(97)

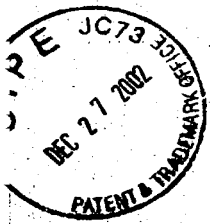


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TT' TT'
TCTAAAGAAT ATGCACATTT GAAACACAGG TATCATCTGG GGAAGGTGAT CTGCTCACCC
AAACCAGTTC ATGAACATCA ATCTCCAGTG GCGTGCTGGA GCTAGCTGTA CCAGCTCATG
AGGGCCAATT GTTTCATTTT TAGGAATTTT GTTTGCTGGT TAAAAAATAGT CATTATTAA
AATTAAATTA TGTAACAAT AATATTAGAT AAAATAAGTT AAAATAAAA CAAAGGAACT
AATTATCCCC AAACCTCTCC CCACCTAATT ATTTACTAT CTGTGCCCTTG GGATTATTA
CATTGATTTT ATCCATATGG TGACAATACT ATTCATATAT AAATGGTGTG CTTCCTTCA
TAACTCTACA TAGCCTGATG TCAGGCTAGT AGCTTGAAAT TGGCCACAGT GGGAGTGTGA
GCATTGTAC CATGAGGCTT GGCCAAGGCT ACAAAATCCAG ACTTTTGTTT TTCCCTCCTG
GAGAGCTGTC TGTAAAAAT TTACCAACAC ACCACTGGTC TTACCTTTGT TAATTACCA
CAGTCCAGGT TCTGACCCTAG ACTTAGAAAC CTGGATTGT CAGCAAGCTG AGGATAGAGC
CATTATTCT AAGAAGGACT CACATTACCC AAGTGCAAAG CCTGATATAT ACCTCAGAA
UU' UU'

FIG. 6A(98)

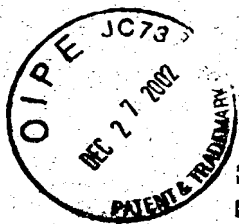


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UU' _____ UU'
TATCAATTTA TTAATTTACA GTGAAGAAAG CCACCCCAGG GCATTCCCCA GGGGAAGGCA
AAAAGAGCTA GTTGCACATT TTGAATGTTT GATGACATTA GGTAAAGGTG ACACAGAATA
TCCATTCCCA CAACTGAGAT ACCTGCTGCC TTAAGGAAGG GACAGGCAAG TCCTTGGGCA
GGACCTTAGA TTGTCACGTG CCATCTTGCT GTAGACTCT CTTTCCAGG CATGACGATG
GCCAACTCTG TCCTCCTACC CTA CTGATGG GATTATCTTT TCTTGACACA TGGCAATGCC
TCCAATCAGA GGCTGGTAGC TATTTTAAAT CTTCAGGGCA GTATTTTCA AAGGAAGTT
CATGGACCAT ATGCATCTGT ATCATTAGA TGTATATTAA AAATGCTTAG TCTTCCCCAG
TTATACTAGA TCAGAAATCTC TGTGGTGGG GCCACGAAAT CGGTATTTTC AACAAATCAC
TAGGTAATT CTGTATATAC TATAGTGTA AGACCCTGC TTGAAGGTTT CTTGCATAT
CTCCACTAAA TATAAAAAAT ATTGACTTCT AGATTAACT CCCAAAGCAC TTGCATTTT
AGTTTCTGG GGCATTATA TTGTGGTACC CCTATACCAC TCACACTCTA GTCAGGAGGT
WW' _____ W'

FIG. 6A(99)



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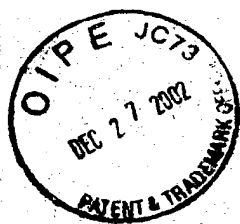
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WW' _____ WW'

ATATTATGGA CTGAATGTTT GTGTCCCTCC AAACTCATA TGTGAAGTC TTAGCTTCCA
ATGTGATAGT ATTAGGAGAT GGTGCCCTTCT GGAGGTAAAA TCAAGCCCTC ATGAATGGGA
TTAGTGCCCTT TAGAAAGAGA GCTCGTCACT GTCTTTCCAT CAATTGAAGA TGCAGTGAGA
AGCTGGTAGT CTTGCACTCG GAAGAGGGCC CTCACACAAC CTGATCATGC TGGCACCTGG
TCTCAGACTT TCTGCCCTCCA GAACTATGAG ATGATAAATT TCTGTTGTTC ATACCCACC
CAGGCTACAA TATTAGGTTG CTGCAAAGTA TTTGTGATTT TTGCCCTTAC TTTTCAGGGC
AAAAACTGCA ATTACTTTTG TGCCAACCTA ATATTTGTT ATAGCAGCCC GAACTAAGGC
AAGGAGACT ACATCAGACA GTGTAGCTAT GTAAGTACAA ATGTATCCCT GTTGAAGGAA
AACTAAGTTC TAACCCTGAC TTCAGGCCAG TAGCCACCTT TTCAATCTCT TTCATGAAGG
GACCATATC ATTATCACTG GTGGCAAAAA TAGAGCACGA GAATGGAATT TGCTTTCTG
TGAAATCTCA GTGTATACAG ATGAAGAGCA AGGTTTGTCT TTCACTCTA AGAAGCAAAA

WW' _____ WW'

FIG. 6A(100)

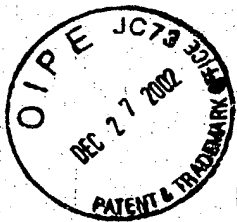


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WW' _____ WW'
GTGAGTACGG ACTGGCACAT TATCAGAGAA AGAATCATTC TAGCTCGGTG GGTCTTAACC
AGGAGTGAAT TTGACTCCAG GGAACAGTTG GCAATGTCTG GAGACGTTTT TATTGTGTAT
AGCTGGGGGA TGAGTGGGTG GGTGCTACT GGCATCTAGT GGTGGAGAC CAGAGATGCT
GTAAACATC CCGCAAAGCA CAGGACAGTC CCCGACAACA AAGAATTATC TGGCCCCAAA
TATCAATAGT GCCAAAGTTG AGAAACCTCA TTCTAGCTTC CTTTTCCCTT CTACGTTCTA
ATCAACTGTT GTTCTTTTCAG CATTAGGATT CATCCAGCAG TCTCTTTCCC CAGCAATTG
TTGAAATTTT TTAAAAATG GACTCATTTT AGTGTCACAA GAAAAAATA CATTACACAG
AAAGGATGGG TCATTTTGTT TAATGATGTT TTGCCTTTCA CATAGCAAAA GCTTAATAAA
GTATTTTAA ATAAAAATGT GAATAGATCA AAACATTAAAT TTCACATGTG TTTTAATAAA
TAACAGGAAG ATGGCTATAT TATATAAATT GTTCTTGAT ATGCTTGAG TGGATCATCA
AACACAAACG TATCTACATG CCTTTTCTTG TGAATAGATC TAATAATAAC GCTCTTCTAA
XX' _____ XX'

FIG. 6A(101)



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XX'

AAACAAATTA AATGATATT ATTGCTGAG AATGTAATGC TTGTGTGAAT AGAAGCCAGC

CCTGAATCCA AGCCCCCAGA TCTATTTTAAA GAATTGAAG AATGTCAGAA AAGCACGTGG

CTTCAAGGTT AATGTGTAAG ACTCACAGAA ACTTGAAAAA TCACTATGAC TAAAAAGAAA

GTATGAGCTC CCTGCATGCC TGTAAATTGG AATGACAGCC AAAACCAGTT AATTATAAAA

ACAGCTAATT TAACAGGTTT TCAAATTGTG TTCTTTCTCC AAGTAGCATA TAGTCAATAA

TCCTTAAAGA GAAAGCAAAG AAGGGAAGC ACTGAACCAA ATTGCTTTT TTGTACCTGC

TCAGCTCAAA TGCAGAGTTC TCTACCTGGA AATTGACTGC TTCCATAGTT TGATAGCCAC

AGAGAGATGG GAACAGAAGG AGAGGTATAA TCCCAGACTT GATTCAGCTA TAGAGAATGA

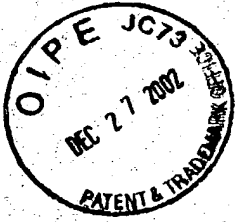
CAATAGTGTC AGAGGCCCTTC CAACCAGAGC GACTCCAATCT TGAATACGGG CTGGGTAAAA

CAGGGCTGAG ACCTACTGGG CTGCATTCCC AGGAGGCTAA GCATTCTAAG TCACAGGATG

AGACAGGAGG TCAGCACAAG ACCTTGCTGA TAAACACAGGT TGTAATAAAG AAGCCAGCCA

YY'

FIG. 6A(102)



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YY' _____ YY'

AAACCCACCA AAACCAAGAT GGCCATGAGA GTTATCTGTG GTTGGTCTCA CTGCTCATTG
TATGCTAATT ATAATGTATT AGCATGTTAA AAGACACTCC CACCAGTGCT ATGACAGTTT
ACAGGTACAT TGGCAACTTC CGGAAGTTAC CCTCTATGGT CTAAAAAGGG GAGGAACCCCT
CACCTCCCAG AATTGCCCCAC CCTTTCCCTG GAAAACTTGT GAATAATTCA CCCTTGTTCA
GCATATAATC AAGAAGTAAC TGTAAGTATC CTTAGGCCAG AAGCTCAGGC CACTGCTCTG
AATGTGGAAT AGCCATTCTT TTATCCCTTTA CTTTCTTAAT AAACCTTGCTT TCACTTTACT
GTATGGACCC CTGTGAATTC TTTCTTGCAA GAGATCCAAA AACTCTCTCT TGGGCTCTGG
ATCAGGACCT CTCCCAGTA ACAATAGTAG TAAGGGGTCG GGAAACTGG ACAAGGAGT
TTAAGAAGCC TTAGATAAAG GGTCCCTCATC ATTGTCATAA CATAAAATCA TGGACTCCTA
GAATTTTATA GCTGATAGGA TTAGAAATTT CAAAATTCAA TTTCATTAAT TTTTCATCTGC
GAAAACAGAT GGCAGAGAG GCCAAACAAT TTGTTAAGGA GCACTGAGGC GATGGAACAC

ZZ' _____ ZZ'

FIG. 6A(103)

ZZ'

ZZ'

CACACTGGAC CGCAAAACCTC CTAGCAGAGT ATACAAGGCC TTGATCTCC TCAGTCAGAA
TGAAC TAGAG CTTTCCAGGG GTACCCCTTC TGA CTGTTA GCATGTTGC CAGTCTGACT
AATTTGAAG TTGCTTAAAT ATCTGTCATT TCCACTGTAT CATAATCTCC TCATTCTCT
TCAATCTCCA ATGCCCTTGAA CTCAGTAAAT GTAGTTGAA CAAAAGTAAA TTGAACCCAG
AATTTCTGAT CATAATCTGG AGCACTTTAA AATTGTCAGC TTACTGGGAA ACGGATAAC
ATGTGATTG TCTTTGATTT TTTTTTTCTC ATATGCTTTT TCCACCTATA GATGCTACAC
GAATGTTTT AAAATCTGAT ATAAAAATTA AAATTA AAAA ATTA AAAA GAAATTTGA
TACAATGCTA CATTAGAGT GTTG TGATTA GATTCCTTAA GTGTATCATG GTGATCTCTA
CATCACGTGG TGATCAAATT GCTTTGGGTT TTAACACATA ACTGACAAAG GCTTGGGGAC
ATGTAAGATC CCAATACAT TTTTATTGAT TTTTTTTTCT TGT TTGTCCT CTTTAAATA
ACTTTTTTTT GTTATAAGAA TAATTCATGT TCAGTGGAGA AACCATAGAA AATAGTGACA

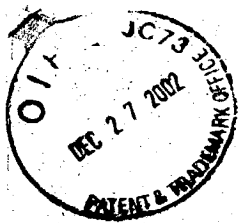
AAA

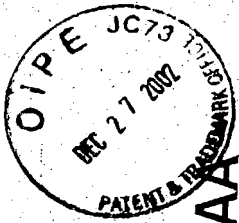
AAA

FIG. 6A(104)

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AAA

AAA

AGTGAAGGAA TAAATTTAAA ATGACCCATA ATTGTACCAT ACATTCTGAT TTTTAAACG
CTGAACAAAT TAGCCTTGGG TAAGTACCAG GAATAGAGTG CAGCATTGAA AGTTAAAGTT
TGGGGAAGGA TAGCTGACTT AAGAAATTAT CTAGTTAGAC ATTTTGTGGA TGGGTAATT
TTGCAGATGA CATTAGTGAG AGAAAGGACT TGCCACTCTC ACACAGCTAG TAGGGTGTG
GGAGGATATT GGAACCAAGT TTCAAGTCTT CAGTGAAGAA TCAAGGGAGA AGTCTAAAA
CCTAACAAATA TCCCTCTGGA TGGACATTTA TTTTATTACT ACAATAAGCC ACACGGTGAG
TCATAAGGAG CATTTCATTC TTCTAATATG TCTCTACTGT ATTAGAATC TGATAAAGCC
CTATTAGAAAT TCATCTCTTT AAGAAATAAA GAAGCTGAGG AACTAAAGAG AGGTTGGAA
TAATCCACTA ATTATATCCG TTAAGCTTCA GTTACGCTAA TAAGGAATAT CACATGACTG
TGGTGTGTGC TTGTTCTGAA CAGTAAAGTA CATGAGGAAA GATAAGATTC AGGCTGAAA
TGTCCTTCAG CATATGTAGG TAGTGGTGAT GAAAGTCATT AAAAGAAAAA TTGATTGAGG

BBB

BBB

FIG. 6A(105)

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BBB

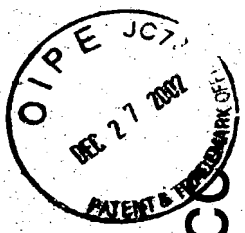
BBB

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GCTGTTTCAGC CTTCTGGAAG AAAAGGTTTC TTTCATGCTTC TCTCTTTAGC CTAATTCTTA
TCCTGTCACT TTCAGGCAA AATTAAAAA AAAAAAGAT TGAAAACGAT GTCCTATTT
TATTGCTTC AAAAGAAACA GGCTGTTGCA TTGTGCTTGG AACAGTTTAC TCTTGGCCTT
GATGTAAGTG TGAAGGAAG CCCATGTAAT TGA CTAGGCA GTATCTGAAG AAGCAGGAAA
TACAGTGTTA AGAAAATGAA CAGGCATGAA AACCATGGCT ATTTGATAAA AGTAAATAAT
TTCTGCAGTT CACATGTTCT CAGCATATTT TCTTTGATAC TGACTTGCTT AATATGACAA
TAGCAGAACC ATGGTAGCTT GTAGGCATTA CTTTCTTTT AATTCTTTT ACATTTTGAA
TTTACCAGCA CTCACATTG TATTACTTTT GGGTTATACT GAGGATCTAT AACTTATAGA
TCAAATACCT GACATATATA TGCATTCTCT GAAGTCTTAG GGCAGAACTA GAACATTCCT
GTGAACATCA GTATAAGATA TTAAAATGGA AGTTTTCCT AAGACTGAAG ACAATAAAA

CCC

CCC

FIG. 6A(106)



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CCC _____ CCC

TATCATAGTC TGAAATGAAT GCCAGCAC CACACAGGAT TTAAATATCT ATACATATAT

ATGTGTGTGT ATTATATATA TTAAATATAT ATCTGTGTGG GATAGGAAGA GGAGGGGGA

AATCAGTTT ACAATTATTA AGTATTTTAC CCTTGACAAG AGTATATATA TTGGAATCA

GTGGAGAGT ATTTTCAAAG ATAAATGTTA GTGTGCTATG AATGAATCCA CCCCTACCAC

CACTGAGGCA GGTAGGAGA GGCCTGTGCT CCTCAAGCAT AGTTGGAAA GGACCTCAAC

AAGACCACTT CAAGAGTCTA ATGTGTGGAG ACTGTGTCTT AGGGAGACCT TATGGTCTAG

CTTCTGACT ACAGCTAAGT CAGGAGACA GGTGGCTGC TCTGATCGTG GAGTCCAAA

GATGCCCTGC ACTGAAAAGC CTCATGAGTG TTGACTTAGG GCTAGTCTAA GAGTCCCTG

GAAGAAGAA CACTCAGTAG GAGAGAAGCT GGAGGTACCT TCAGTGTGA ATTGGAAC

GATTCATTCC CCCGTGGAGC AAATTACATA GGAAGATGC CCAGTGATGG AGAGTGGGG

TGTCTTAAC AATTACCCAC CCACTGCCC CACCCTAAGA AAAAGAAAT CACATACAAC

DDD _____ DDD

FIG. 6A(107)



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DDD

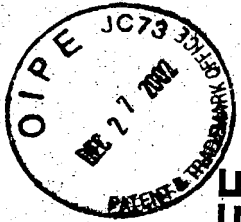
DDD

CAGTCAGCTG TAAACATATG CCGAGCCTAG TAAACTCAGA TACTAAGTTA CCAGGGTACC
TGGCAAGTAA GAACATTCCT GATTCCCTTC CTCTCTTCTC TTTGCCCTCC AACCTTAGTG
GCTAGCAAGA TGGGAGAGG AGGAGAAGCT GTAAGTGGG AAAAAAGAGC AGCTTTCTCT
CCTTTTCAGC TGCTGGATTC TCCCTCATCA TAGGCCTGAG CTGGGAATC AGGAAGAAGG
ATTCTTTTAA AACTGAAGT AACGTTATCA TTTAATTTA AACATTTTA AATTTGACA
ATGTTGAGAT TAGATATACT AATTATTAA CTAAGATTAT GTTTTGCAGC TTGAAGTGAT
AAGAAAAACT CTTATCTAAG AGCATCCAGG AAAGTCGGG GTTTCCTGAA CATCCTTTAA
AATCCTTTGG AAGTCAGCTT TCAGAGAGGA TTAAAGTGT AGACTGGGCC TTCAGAAACT
TGGTTAATGT AGGGGTTTCC TATGCAGACT TGGGACTAT ACCTTGTGTG GAAGAGAGAA
AATAAGATTA TCTTACATTT TTCCCATTCC TTTTTCAAA AGAAAGCTCA GCTAGCATGA
AAGTTAAATT CAAAACGTAA TGGGTATTAT TTGCATATTC AAATCTAGTG CATATCATGT

EEE

EEE

FIG. 6A(108)



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EEE

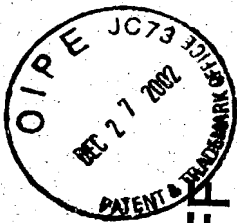
EEE

AAGTACTGAA TTATGGTATT CATTATTCA AATGACAAGC TGGATTTTTT TTTCTTTTCGA
ATTTCACAAA TTAATTTTCC TTGGAACCTT TTGGTTTGGG CTTTAAAGAGT TTAGGCTTTC
ATCACAAAGA GAGACAGCC TTGAAGATTA AAGTGTTGGG CTCCTCTCAA GATGTTCTTA
GTCCAGCAAA GGATTTCTATG CATAATTGGG CTCCTTCTG TCTCATAACC TGTATTTCTT
GATATTCTAT TTATATTCTG TAAGATTTTT TTTTAAAGG AAAAATTCCT CCATGGTTGA
AGGACATGTC AAAAATAGAG GATACAGTTT TATATCAAAG GAAGTTTCAT GATATGACTG
TAGAAGCTCA TTGACTTAA GACACATCAT TTCCTCATGG AAGTGTTAAA CAGATCTGTA
CAATAAGGTT GGCAATCTTT GTGAAAACA GTTTTTTTC TCCTGCTCTA AAGAAAGTGT
ATATTCAA ATGTGAATGT CAGCAGTCAG AAAATAGTAT TTTTTTAACT TCGTTTTCOA
AGTCCTCAA AACCTGTACC TAATCATGAA TTTTTTTTCC CACAGATTGT TTCTTCTTCT
CCCTCCCGA AACTTTGAAG TTTTCTTACA TGACACCAGG ACCATGTCT TTTTTTAATT

FFF

FFF

FIG. 6A(109)



FFF

FFF

ACACAGAAAT GAAAGAAAAA AAGTGTGTG TATCGTTAAC CAAATATATG AAATCTTTAA
GCTGTATTTT TATTTTAAAC TTTGTTTTCG AAAGAGGCCA TTCCCTTTGG TTAAATAATT
TGTTATTCAC AGTTTCCTTG TCCTCATATT ATCAAGGGA AAATTGTAGA AATTTTAAAG
GAAGCTCTAG GCAATGTTTT CATCCCTGAA TCTTTGGAGA GTTATAAAA CAAACAGATT
ACTGAACCTG TAAGAGAACC AATCGTGAAG TCATTACATC TAAGCATAAG CAAAATCTCC
TCTTGATCA TTAAGTTATA GAAGAAAAGA AAGCTGCAC TTGAAAATT AGATAAAGCT
TGGTAACTTG TAAGTCAAC ACGTAAATT TTACAATTCA GGAATATCGA TAGCAGTTGA
GTTTAATAGA CTCTCACAT TCCAAATTTA AAGCTTCCTT CTCTGTGCTA ATAGAGATAC
AATAGCAGTA GCGTTTAAAG AAGAATGAAT CAACAATTTA AAACATAAAT GTGTTTTTA
TTTATCTCCC TTATTCACAT ATATTGTTT TGTTTTGAGA AGAGTTCTG CTCTGTCGCC
CAGGCAGGAG TGCTGTGGCA CGATCTCAGC TCACCGCAAC CTCTGCCCTC CGGTTCAAG

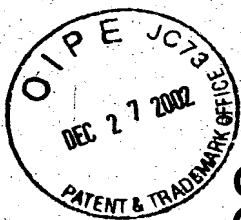
GGG

GGG

FIG. 6A(110)

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GGG

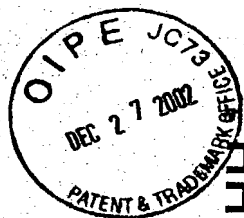
GGG

CGATTCTCTT GCCTCAGCCT CCTGAGTAGC TGCATTACA GCGTGCGCC AGCAACCCCG
GCTAATTTTT GTATTTTAG TAGAGACAGG GTTTCACCAC GTTGGACATC TTGGTCTCGA
ACCCCTGATC TCAAGTGATC AGCCCGCCTC GGCTCCCAA AGTGCTGGA TTACAGGCGT
GAGCCATCAC TTCTGGCCCT TATTCGCATA CAATTAAAA ATCATCACAG AAGTTTGAA
AGAAGGAGG GGCAGAAAAT TACCTACTTT TCCTCTCCCC AGCGATCTCC TTCAAATCTG
TGCCTTTTCC TCAGGCCCCAG GCCTCAATT ACTGAGCAGT CACACCTCAC AGAGGAGGT
CTGGGCAATC CACTCTTGGT CACAGGAAAG CCATTGACCC TCCCACTTCC TCTCCTCCAC
CTTGTTCTCA ACTCTTGACT TTGGGCTTG TTTCTGTTCA AGTCCTAGAA CTGGTTTCTT
TTATCAGGTT AGTGATTAG TTCTCTTTCC CTCTAGTTGC TCTCACTCCC TGA CTCTTGC
CTTCTGTAAC AACTGGAGAC AACTCTTTCA AAACCAGCTC CAAGCCCCAG ACTTCTCTCT
GGGCTTAGT TCGTAAGGCA GGTGCCCTAC TGAGTGAGCC TAGATCAGAC AGAAACATAG

HHH

HHH

FIG. 6A(111)



HHH

HHH

CTGTTGGCAA GGATTAGGT GAATTTCCCTT CCATTGTTTT TCTAATACCT TTTTTTTTTT
TTTGTAATA TAACCATGCA CCTACACACA TATTGAATA TCCTGCCCTT TATTATAAA
TGACATGATA GTCCGGGAG TGGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGAGGCCG
AGGTGGCAG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TGGTGAACCT
CCATCTCTAC TAAAAATCAA AAATTAGCCG GGCATGGTGG CAGGCTCCA GCTACTCAGG
AGGCTGAGAT GTGAAAATCG CTTGAACCCG GGAGGTAGAG GTTGCAGTGA GCTGAGATCT
TGCCATTGCA TTCCAGCCTG GGCAATAAGA GCGAACTCC ATCTCAAAA AAAA
AAAAAGACAG GATAACATT CTAGATAGTC TCTATAATGG TCATGATTAA GACAATAAA
TAGTCTGAAA TTGTCAATAT ATATTAATAA TAATTATT GGCCATTCTG CCAAGTAGCA
GACACCTGTC ATTCTGCCCA CTCAGCACCT CTCTTTCTTT TAGGAAATG CTACCCACTC
TTTGCATGGG TTCTGGATGG AACTGTTGAT CACAGTGTT TCACTCCCCA TTTTGCCCTCA

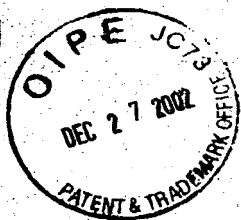
III

III

FIG. 6A(112)

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III

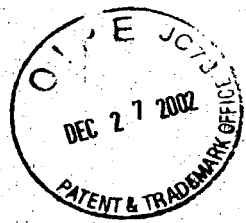
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TATGATCAC AGTATCACCC CACTCAAGGC TTGGTTGGAG ATGAGCAGAA GAGACTAAAG
CTGGGTCATT TTAATTAAACA CCTGTACCCC AAAGAAAGAC TGTCAATGAG GCTTTTATAC
CGACACTCCT GGTTCCTCATT CTTCCTGATG CCATTCATTT GACGAACTAC CCAATCTTTC
CAACAGTGTC TTTGGAAGAA AGATAGTCAG AAAAGAAGAT AGAGTTGTTT TCTGTCTTTT
GCAACCAAGG AACTCTAAAT GATAGACTTG TTGCTAGGCA CTTGGTTAT TTTTATTATC
TTGAATACTT CTGTGATATA CTTCCTTGTC CATGCCCTGTT TGTACGGATG TAGCTTTTTA
TATATTTTAT ATAATTCTC AGAAGTGGA TTAAGGATG AAAAGGATG AACATTTTCT
GATTCTTAAT ATAAATTGTG CAAATGCTTT TTAAGAAGAT TATACCAGTT TACATTTTGT
GTTATATATA ACAGAAAGTA CTAAGGAAA ATATTACAAA AATTGCTCT CTGTCAGGA
GGACTTGTA TAGATGATA AGTACTTGAA ATAGGAACAT AGAGCATTT CAGTTTAAAA

III

JJJ

JJJ

FIG. 6A(113)



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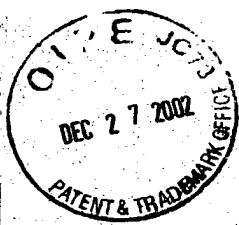
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JJJ _____ JJJ

TAATTTCATT GGGTTATTTA CGGAATCCCTT AGAATTATGG CCAGACATTT ATAGATGATC
TGTACCAAAC CTAGTTGGTT ACATAAATTG CTTATTCAAC TGGCTTAAAT CTATAATAGA
AAGATGACAC TTAAGTGAATG TTAAATATAC ACTTTGTCAG GGGCTTTGTA TTATTCTATG
ACATCTTCAA AATGACCCCTA CTTTCCCTATT TTATAAGTAA GGACAGGAAG GCTTCAAGAA
CATGACTAAT TTTCCCAAGG GCTGTACCAA AGCCAGAACC CAAATCTATA AGGCTTTTAA
ACCTGCATTC TAAAACCTGCA TCTCGGCCAT CTTATTCCCTA CAGAACTTAA GGTTAGAAAG
CCAGATTGGA GTCCCAATTT CACCACCTAG TAACCAGACA AACTTGAGGA ATTCACTCAA
CGTCTTTGAA TCTCCATTTC CTAATCTTTA AAATAAAAC AATAATACTG GCCCTACCTA
TTTCCTAAAA TTTCTGTGAGG CACATAGAGC TAGTGTGGTA GAGTGTGTA CAGATGTCAA
GTGTTAGCGT GAATTACTTA GATCCCTGAA CACCATGGAT GAATGTGTCT GACTGCTATT
AGAGGTCATA AAGAATATTG GGGCCAGGTA CATTTGGCTTA TTCCCTATAAT GCCAGCACTT

_____ KKK

FIG. 6A(114)



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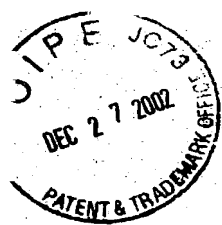
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KKK _____ KKK

TGGAGCCTG AGACAGGAG ATCACTCGAG GCCACAATTT CAAGACCGG CTGGGCAACA
TAGTGAGACC CTTTCTCTAC AAAAAAAAAA AAGCAGCCAC GTGTAGTGG ACACACCTGT
AGTCCCACAT ACTCAGGAG GTGATTGGG AGGATAACTT TAGTCCAGGA GTTTCAAGGT
GCAGTGAGCT GTGATTGCAC CACTGTACTC TAACCTGGAC AGCAGAGTGA GACCCTGTCT
CTAAAAAAAA AGAAAAAAAA AATAATAATA ATAAAGAATA ATGGCCCTTG GGATACCCAC
TCCTCTCTTT CTGCTCTGAG TTGTGAAGCA GTTGAGTTAC ATATGCATGT CCAATGGATG
AGGTTGAAAA TATCAACTGG ATTGGAATGT GGCTTACTTG CGTGGCCACA ATGAGCTTCG
TAACACTTC TGACAGGGTG AGAAGACAAA CTTCCCTCACC CAGTCACTGG CAGAGCTGGA
CACTCTGTGT CTCTCCCA GAACAACCTC TTA CTGCATG GAGGTGGATG AAAAAGTCAA
CCGAGAACAG GCTACTCCAA AAAGCAGAGC ACCAAAGCA CCAGCTGGTC AGGTCCCCCT
TCCTAAGTAA ACAATCACGT AATTCAATTG GGACAAAGCC AGAGAGGTGG TGTGGAGAAA

LLL _____ LLL

FIG. 6A(115)



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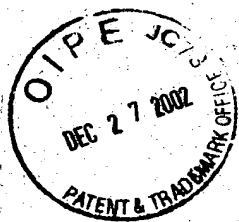
LLL _____ LLL

GAGAGGCAG TTTCCTCCCA AGTTTTCTCT GGAATCTTT ATGGGAATAT GAGGTTTAGG
GGAATAAGAC TTCCCTTTAA CAGTGAAGAA TCCCCAGCTC TATTGGTAAT AGGAAATCGC
TTACAAGGAT CATGGGGAGT ATTTCCTCAG CTCGTTCTGC CTCCTACTTG GCTGAGTGGA
ATGGAACCAT CTGTGGCTGC TGCATATGAT ATTGTCAACT TTGTCATTCC ACACCCACTC
CTTGACGCC TACCATGTGG TCATAAGACT CCTTTAAAG TGTTCCTTTA AAAAACAAAA
TGTGTTTGT TTCATATAAAA TACAGCTCAA TGTGAGAACC CTGTCTTGT TTGCTCTCTG
ATGTAACCCCT TTCACAATGT TTGGGCAGCT TATTCTCTCT ATTTCCCTGT AGGGTCCCAT
CCAGGCCAAA GTGAGTGCCA GCCTCATTG GGCAGACAT GCCCTGTGA AGGCAGGAA
GAGACGAAAG CTAATTGTAA CTTTGTGATT AGCTGTCATG GATGCCCTGGT CCTGTCAATA
GGCTCAATA AAGCCAGAAG GCCAAGCGTT CGCTTCTGCA TACTGATTGC TGAGTCAGAT
TTCTCAGTGC AGAAGGGCTT TCTAGGCAGT CAATTTTAGA ATATTAGTCT TGGTCTTAA

MMM

FIG. 6A(116)

MMM



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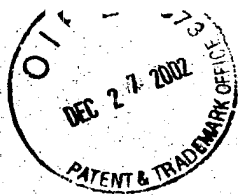
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MMM MMM

GTGGTTAAAA TCCCTAGCTG GTCCTTAATC TGAGCCTGGA GAATTAGTT AGGCTGACA
TTCTGCTGTG ATATTTTTC CCTCAATATA TATGCTCTTC CTCCATCTCT TAGATCCCCTG
AATCATAGAG ATATATATGT TATATAATCA ACTGCTCCA GTCTTAAGA GTGATAAGTA
CACATTGTGT CAGGTGAGG GGACAGGAGA ACTTCAAAA GCCTTCTTG CCCCTTTTTC
CTTCTACTG CCTCCACTA AGTCCAGCCA CTTATTATTC AGTGACACT ATCATCATGA
CCATGAGTCT TTTGGGGCTA CCCTGGTTCG GATCCTTTTG GAGGTTGTT GCTTAACTCT
GTCTTCAGTC CTATGGAGCT GCTTTTTC AAAGTTTCTA TTTTGGCTAA AGTTGGCCAG
AATCTCCTTG TAACCAAAGA ACAAATAAAA TACCAGCTTG CAATGTTCTA TGTTGCTTCC
ACCAAACTTA TGCAGCACTT CCTATCTAAT CCACCTACTA GTCCTTTTTT TTTTATTTT
TTTGGAGACG GAGTCTCGCT CTGTTGCTCA GGATGGAGTG CAATGGTGCA ATCTCGGCTC
ACTGCAACCT CTGCCTCCCG GGTCAAGCA ATTCCCCGC CTCAGCCTCC TGAGTAGCTG

NNN NNN

FIG. 6A(117)



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NNN _____ NNN

GGACTACAGG TGCATGCCAC CACGTCCGGC TAATTTTGT ATTTTAGGAG AGAGAGGGTT
TCACCATGTT GCCCAGGCTG GTCACGAACT CCTGAGCTCA GGCAATCCGC CCTCCTCGGG
CTCCCAAAGT GCTGGGATTA CAGGAGTGAG CCACCTCACC TGGCCCCGAC CTA CTAGTCT
TTAGTGTTG CTTCCTTCTA TTGGGTAATT GTCTGTTTAT ATGCATGTCT TGTTCCTCA
AATAAAATGT GGTCTTCTCA AGGGTATGG CCCATGTTCT ATCCATCTGT AGATATCACA
GCACCTAGCA GTGTCTTTCA CAGAGGAAGT ACACAACTGG CAT TATGAT TCATTGCTCC
ATTTTTTCTT TCTTTATCCC CAGCATTTCT CAATAATTTC AAACATCTCC ATTGGAGTAC
CGGAGAAAGC AGGTAGCTTT ACTTGCAGCT ATGTTTCTAT CCCCATAGTA ACTAAAGAG
GACCCAGAGA AACATGTTTA AATGCTGTCC TGTATCAGG ACCTCAGCCT TCTGATGCTC
CGTGGCTTGG GGGTTAATGC TTGATCATTT CCTCCCCAAC CTACACTGTG TACCTATGCT
AGTCTCTTCA TGAGGACTAA GCCCCATAGT AAAAGGGCTA GATAAATAGA AAATCATTTT

000 _____ FIG. 6A(18) 000

000—000

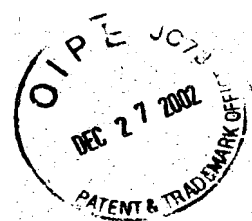
ATGTAATTAT AAGAATGAGA ATACTGAGTA TTA CTGGTGT TTGTTTAGGA TAAGCACATC
TTTATTTGTA TGAGAAAAG AAAAGAGAG TGAAAAATAT ATTAACGTGC ATATAGTTCA
GGACCATGGA TTGCAAGTGA CAGAAACTCA ATTCAAACCA ACGTAAGTCA AAAGGAAAAAT
ATATTGGCTC ATGTAACCTT CTCACAGAGA GGCAGGATG GAAGGGGCTT TGGGAACAAG
AGAATTGTTT TCAAATTCTA GGAATACTAG GATTAGTCCA GGATGGGTCA CCTTCCCTGTC
CCTGAGGTGG TGGTAGCGAT GGTAGAGTCT TATGGGAGGA AAGAGTGCAT GTTAGGATGA

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PPP—PPP

FIG. 6A(119)

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PPP_____PPP

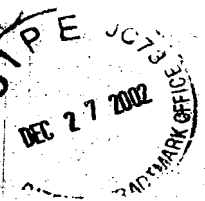
AGGTAGGGCT AAGCAAACAA GGGCAAGGC CACTATATCA TGCTAAAAAT GGTTTTITTT
GATGCTCTCC TTAATTTCAC AAATGCTTCC AACAAAGTAG CACACAGGAA AAAGAACATA
GGGACTCTAC TGGTGGGTGC TTTTATCTTA AGCCTTGTAC TTGCTTTTCA CAGCTTACTC
ACTGCTTGTA CCGAGGCCA TATGCCCTGT AAAAGCTTCT GCAGGGTTTC TACTAAGCTG
GGTTCCTTAT ATGGCTCTCT CCCATTCTG TTGCCCTCACT CTAGTGATCT TTCTCTTTTC

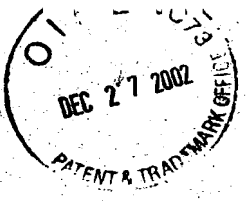
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QQQ_____QQQ

FIG. 6A(120)

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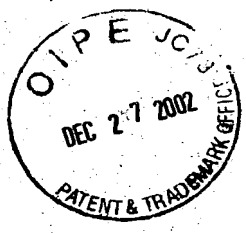
QQQ _____ QQQ

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CTCACCTCTG GGACTGGTGG CTGTTTGAT GGACTGCCTT AGCTTGCTT TGGGTTTTT
CCTGGGGACA ATGTCTTCAG ATTATCCTAG ACCAAATAAA CTACAGCCAC TGGGCCAGGC
TCTTCCTCCT CCAACTGGAC CATGTTCCCA GGGCTCTTCA CCTAGTTA GGTCAAGCAT
TCTTGGCAAA AGAAAGGCCT AGTTAACAAT AGACATTCTA GCAATTGATT CTTTTTGACA
TGTTGTAAGA TCTATTCACA TTTTGTAATT AAAGCATTCC CCTATGGAAA CCAACACGAA
CTAAGCTGCT CCTGGAATGC AGGGTGGCCT CCTCAATACA GGATGTTCTA GAGAGCTGTA

RRR _____ RRR

FIG. 6A(121)



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RRR _____ RRR

TTTTGGGCAC TTAACATATTC TCCACTACTT AGGCACAGC ACTGAAATTA ACACCACTAA
GTTTGTCATG TCCATGTAGT TAGTCTCAGG CAGTGCAGCC TCAGGAGTGG AACTGACCTC
TTATGTGTGT CCAGCCTTTC TTCCCTCAGA AGTCAGCTGT GTTTTCTGCT GACTCTCCAT
AGGAACATCA GTCCTGAATC CTCAGACCAC CATCTGGAGT AGTAAGTGCT CCTGACAGTC
CTAGAAGTTG TCTACCGCTG GATCTCCAAA GCGTGTGACA CACCGTGAGA GAGAAATGAG

SSS _____ SSS

FIG. 6A(122)

SSS

SSS

AAAGCTGGGC TCTTCAGGTA AATCTTGCTT TTTTACAAGC CCCCTAATTT TACTGCATAA
TTATTTTGAA TTCACTGATA ATTTCTACAA TTTTCCCATTA AGTCATCTAC ACACAATACC
CTCTCATGCA ACACTTGGCT TTGCTAATAC ATATCTATTA TGAGAGCTGT GCTTCTTAAG
CGTAAATGTT TTATATGCAC TAAGGCTCTT GGCTTACATA TAAAAGGGGT ATTGAGCAAT
GTGATACAGA AGTCCTTTCT CCACAGGTCT CATATGTAAA GAATTCATTA GATTGGCTGA
AATAGACTGA TCTGTCCATT TCTCTGCTCA CTATCATAA GGAAGTCATT AGCTAAGGAA
CAAAAACACT AATCTATGTA ATTAGAAGAA CAAGCTGGTT TTGCTCAATA TAAAAATAAG
AAAAAGAAAC CATGTGAAAG TCAAAATATT TGTTAATCA GGTCAATGAG AATCTATTAA
AAAGTATTG AATCTTTTAT GATGAGAACT ATCTTGACTC AAGTGGACAG TGGTGAGCTT
TTTGGCCTGT GGTCCCTACG TAGAAAGGAG GCTTTGTCAT AAAGTCTTAT ATGGTACAGG
TGCCAAAGTA AGTGCCCAAG CTTGCTCTTA AAAGCATACT GGATTTTGT TTAGACTTTT

TTT

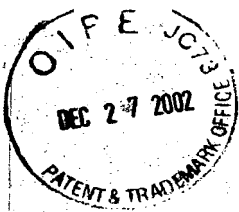
TTT

FIG. 6A(123)

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TTT

TTT

AGTGAAGTGA AGGGAATAAA CAAATCCCTC TGGAGAACT TCTCCTCCAT CCTTGGTGAA

GTCATTCTGC CAGAATTC

FIG. 6A(124)

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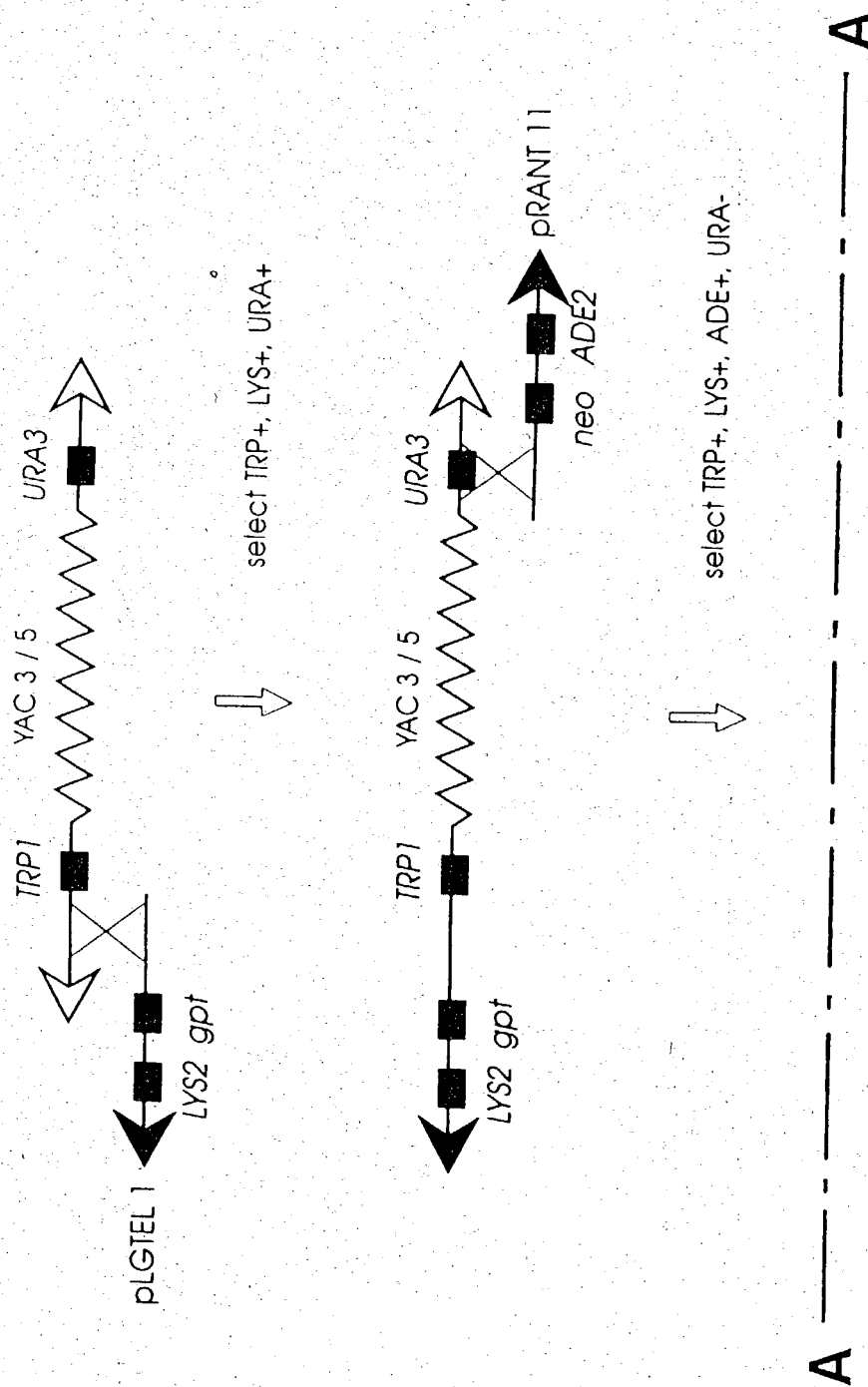
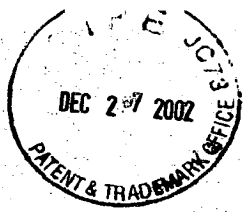
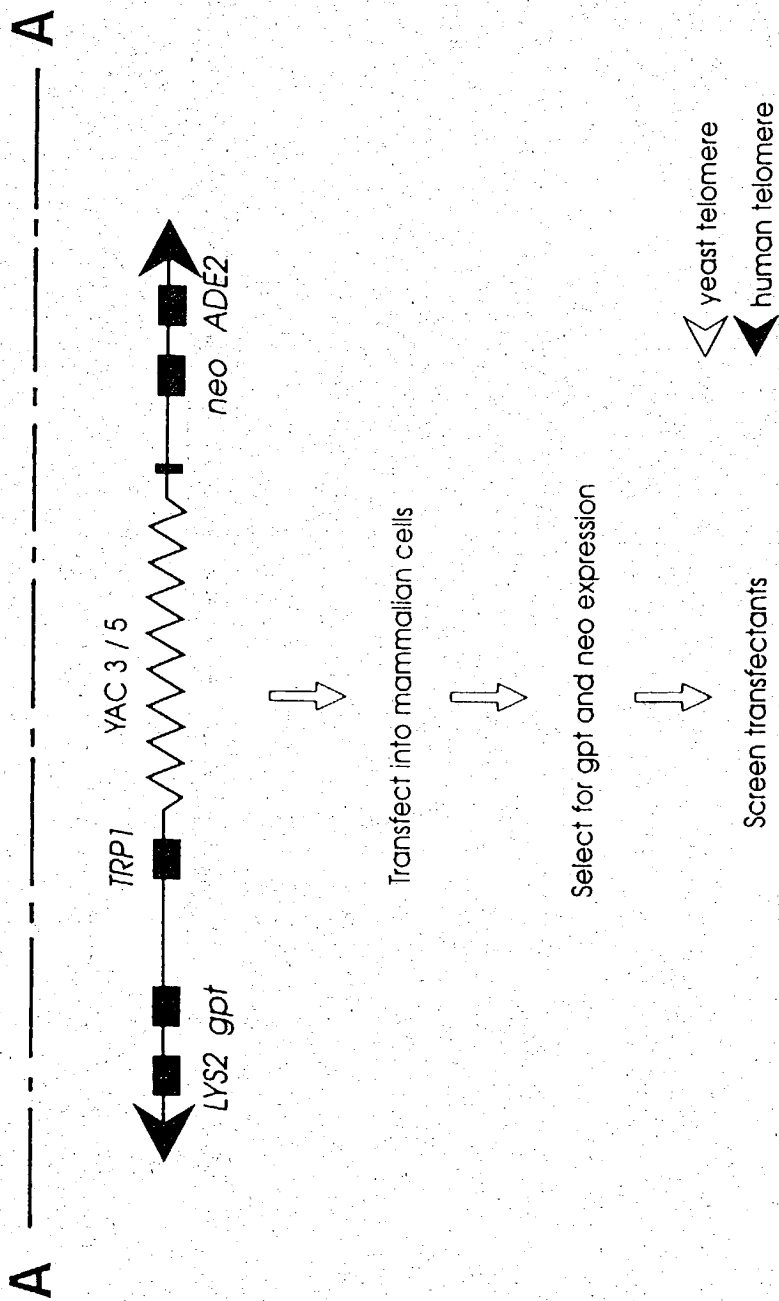


FIG. 7A



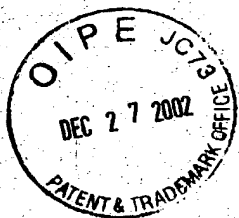
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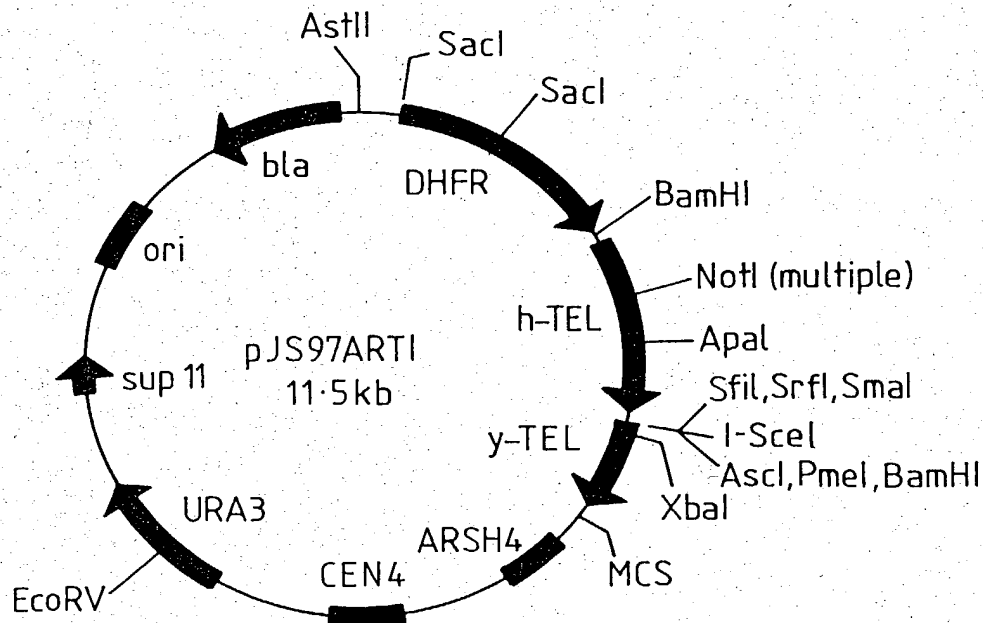
Procedure used to retrofit YAC 3 and YAC 5.

FIG. 7B

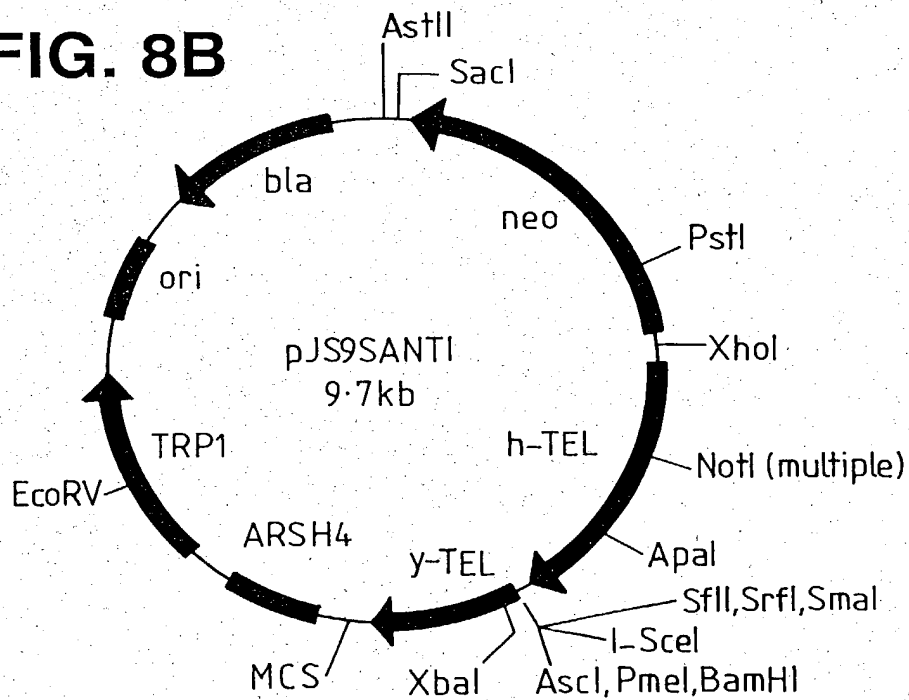


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FIG. 8A

MCS = T7, EcoRI, BglII, NotI, XmaIII, SstII, SalI, NruI, NheI, BstBI, ClaI

FIG. 8B

T7, EcoRI, BglII, NotI, XmaIII, SstII, SalI, NruI, NheI, BstBI, ClaI

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FIG. 8C

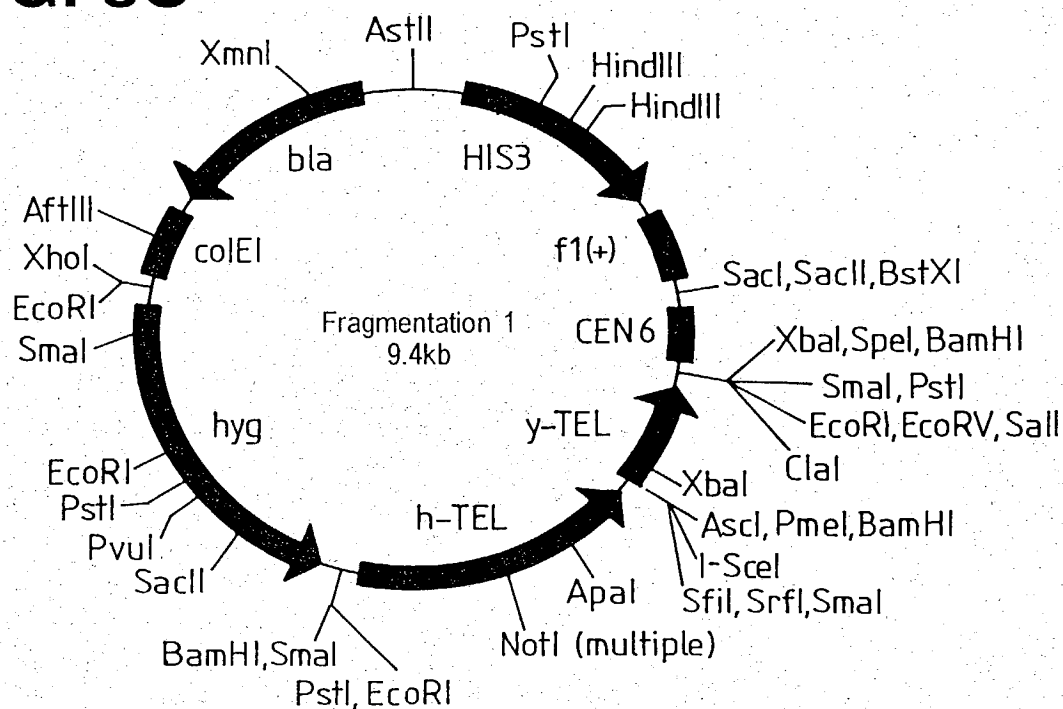
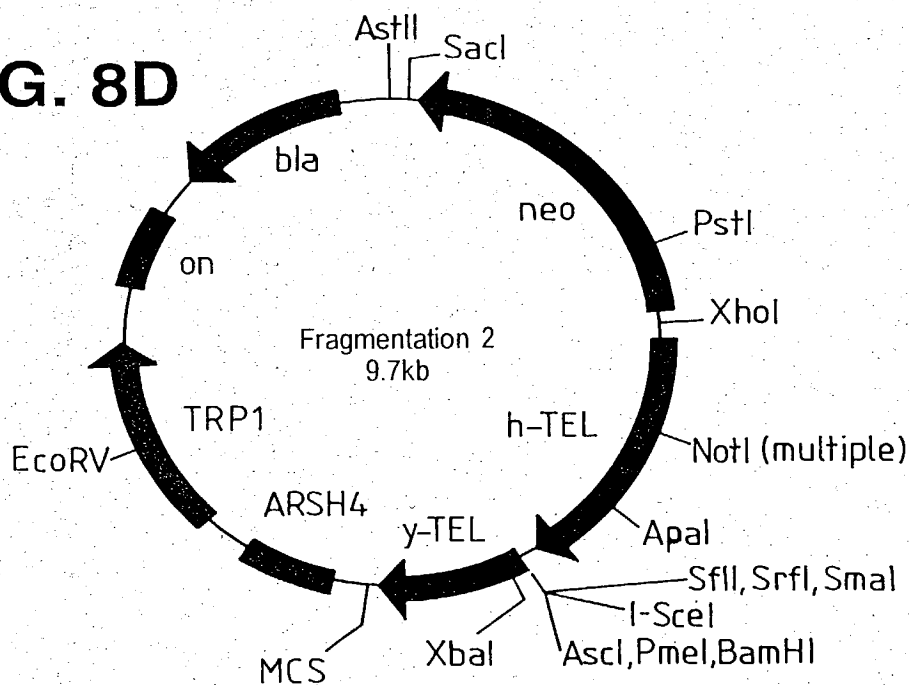
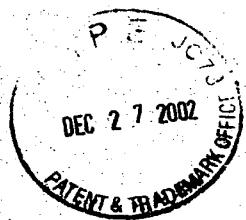


FIG. 8D



T7, EcoRI, BglII, NotI, XmaII, SstII, Sall, NruI, NheI, BstBI, ClaI



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FIG. 8E

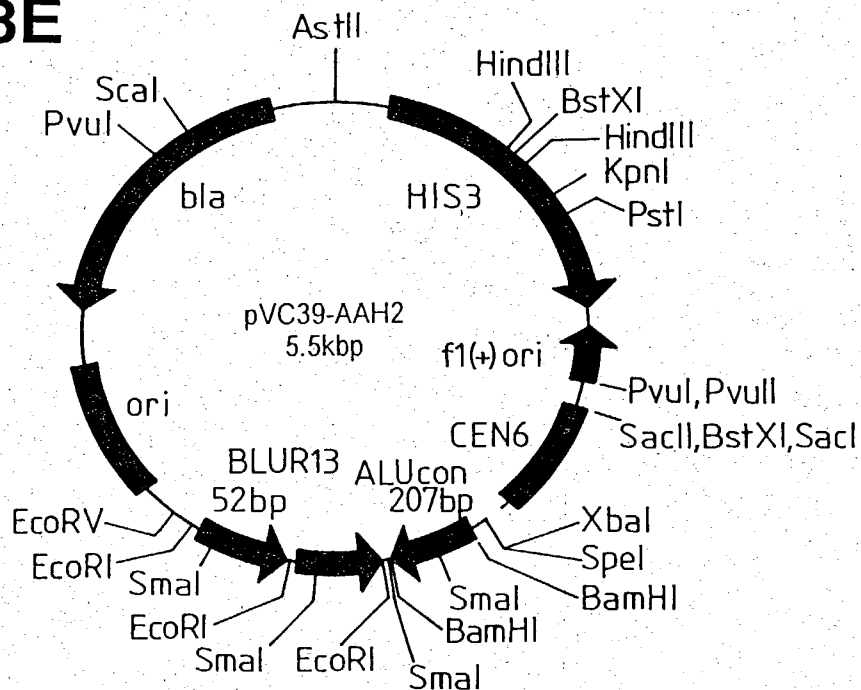
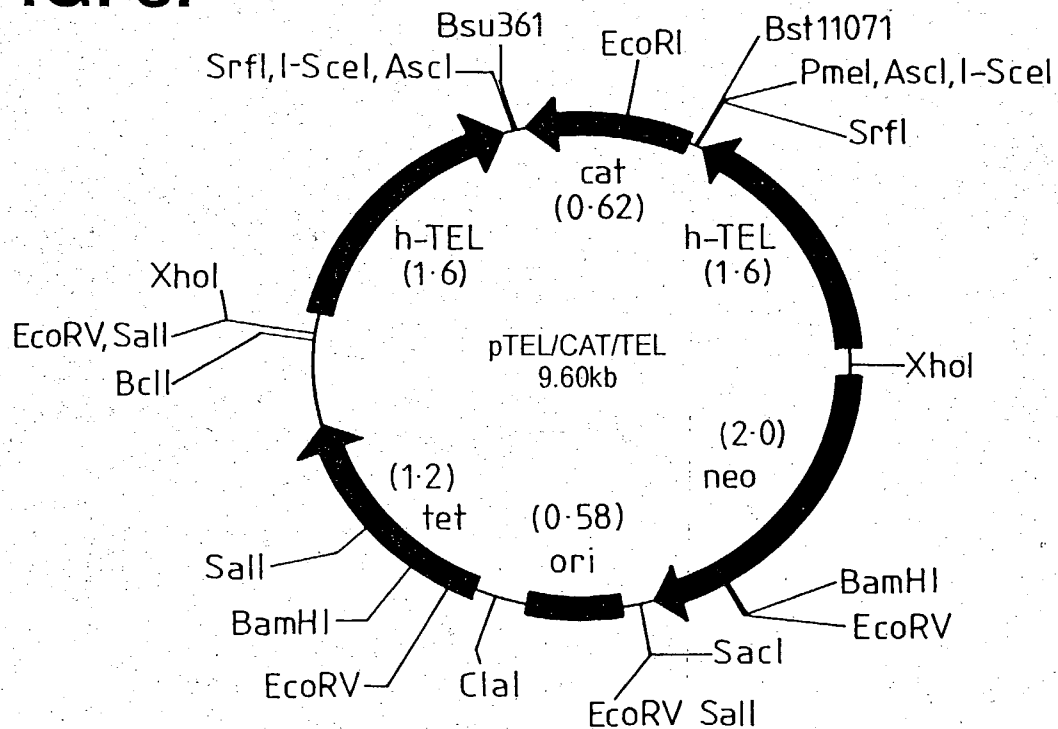


FIG. 8F



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FIG. 8G

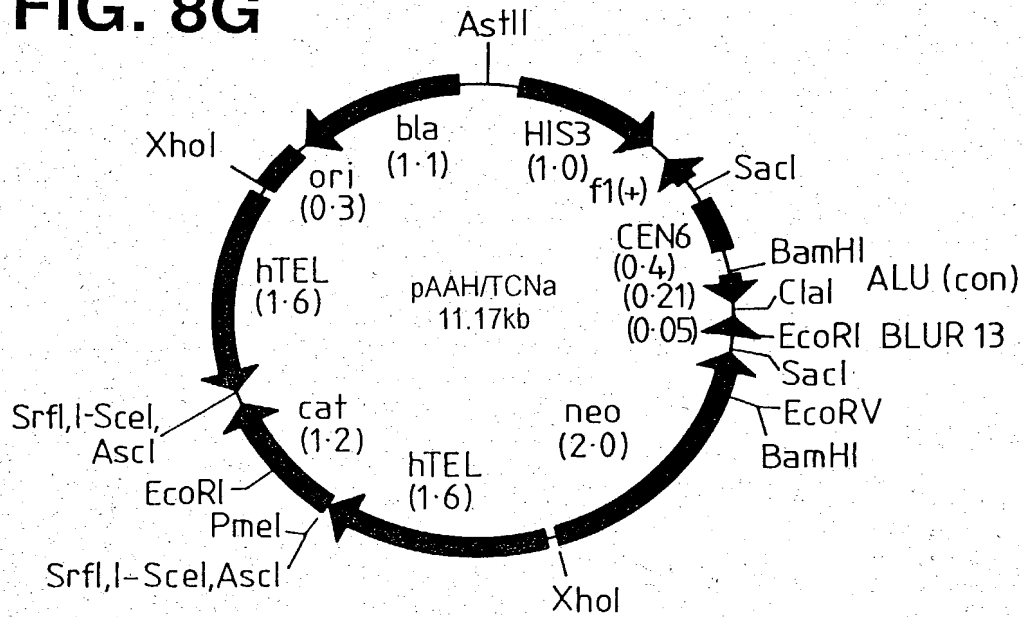
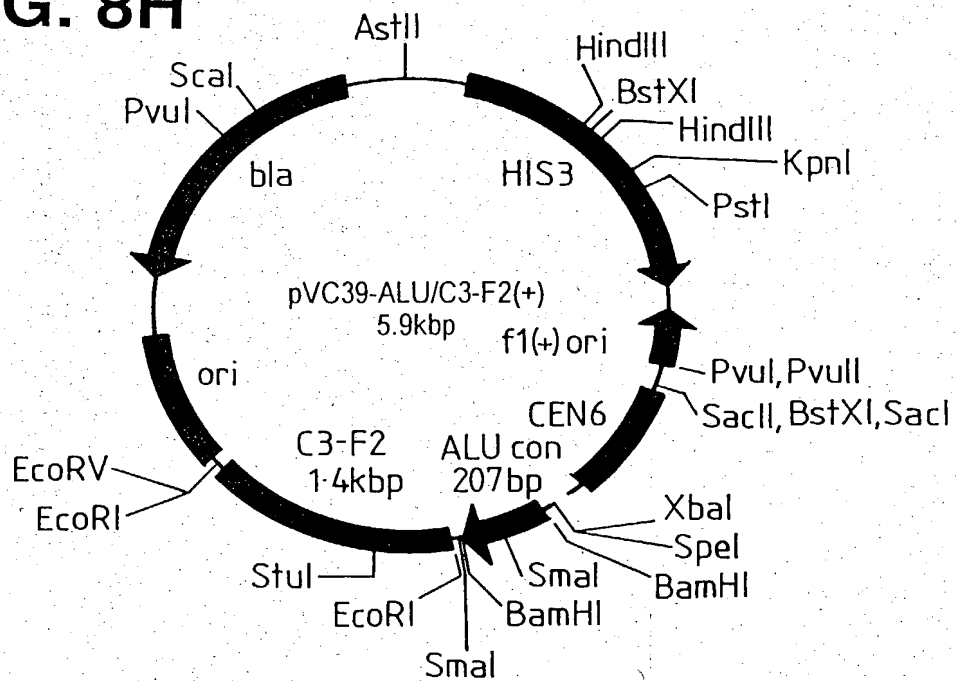


FIG. 8H



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FIG. 8I

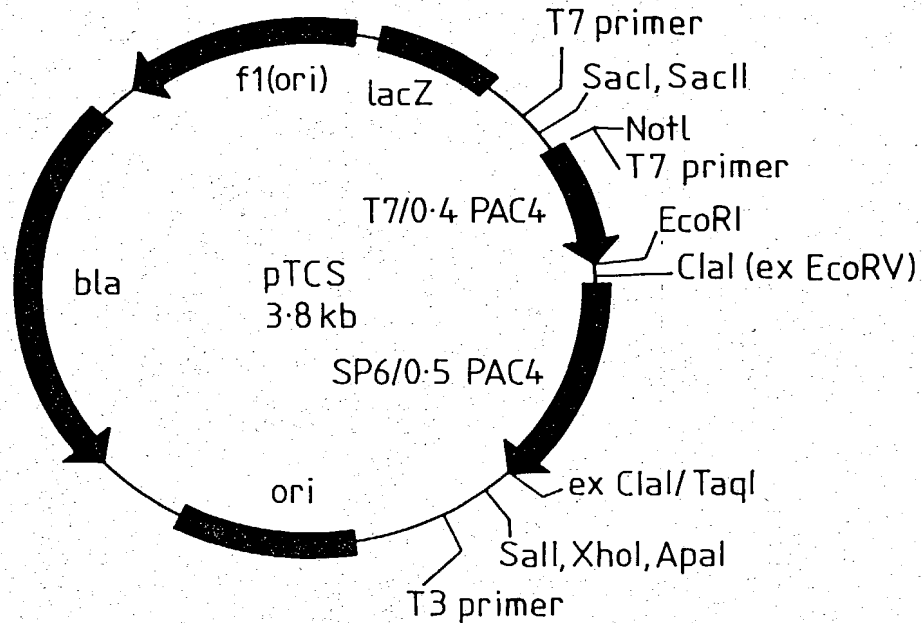
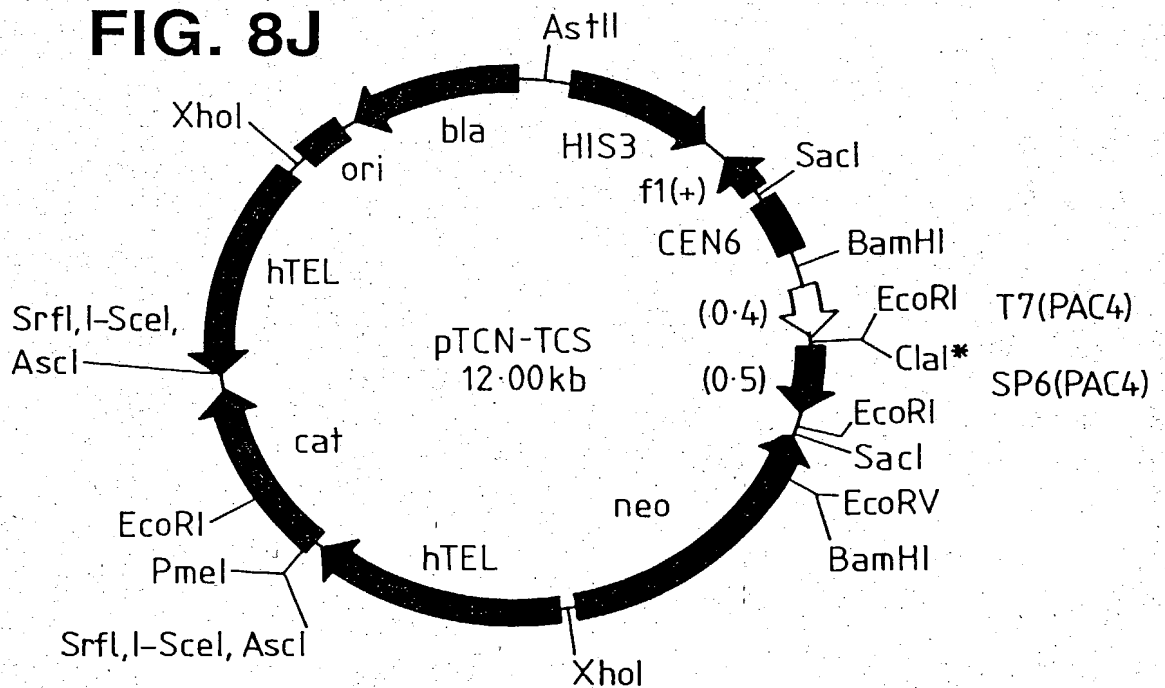


FIG. 8J



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FIG. 9

Circular TAR

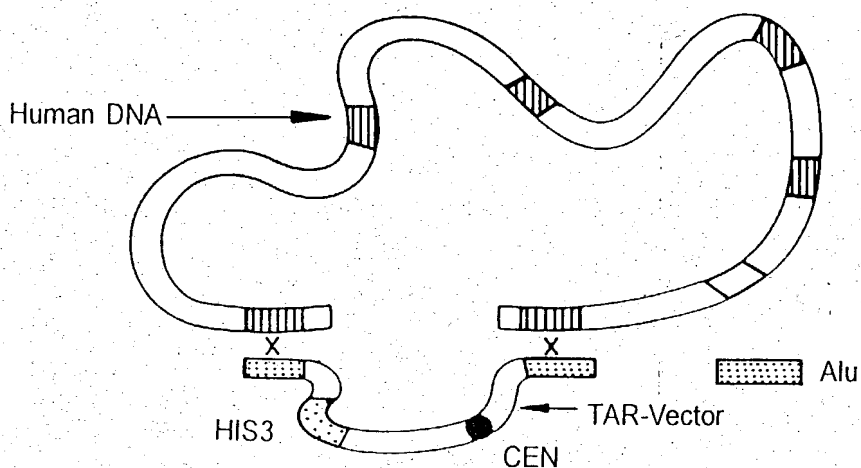


FIG. 10

Shuttle YAC to HAC

1. Circular TAR
to create YACs

2. I-SceI digest
to create HACs

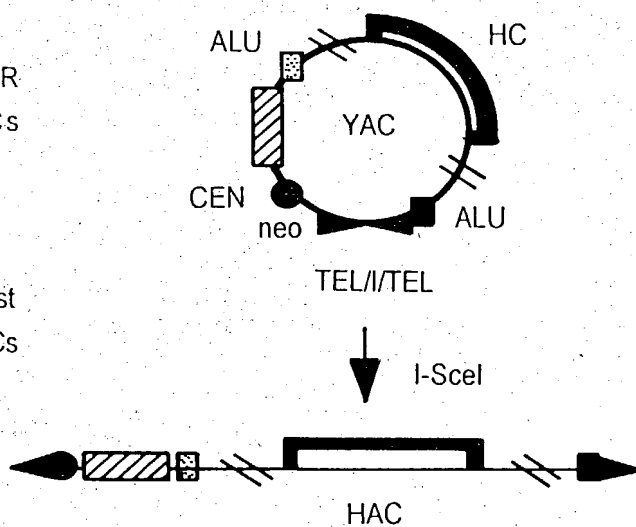


FIG. 11A

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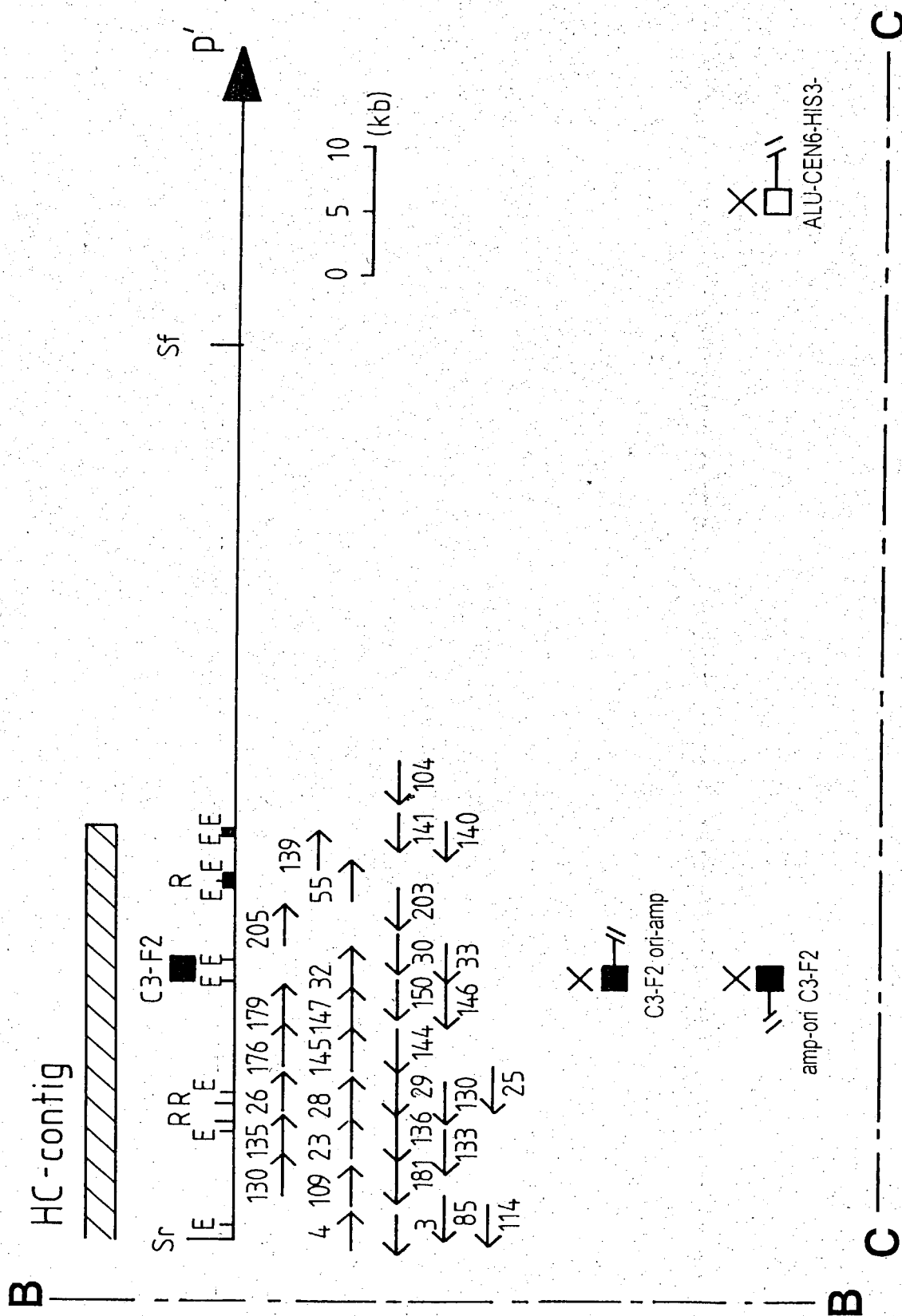
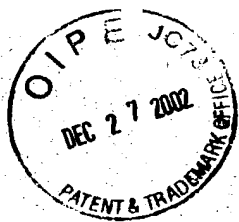
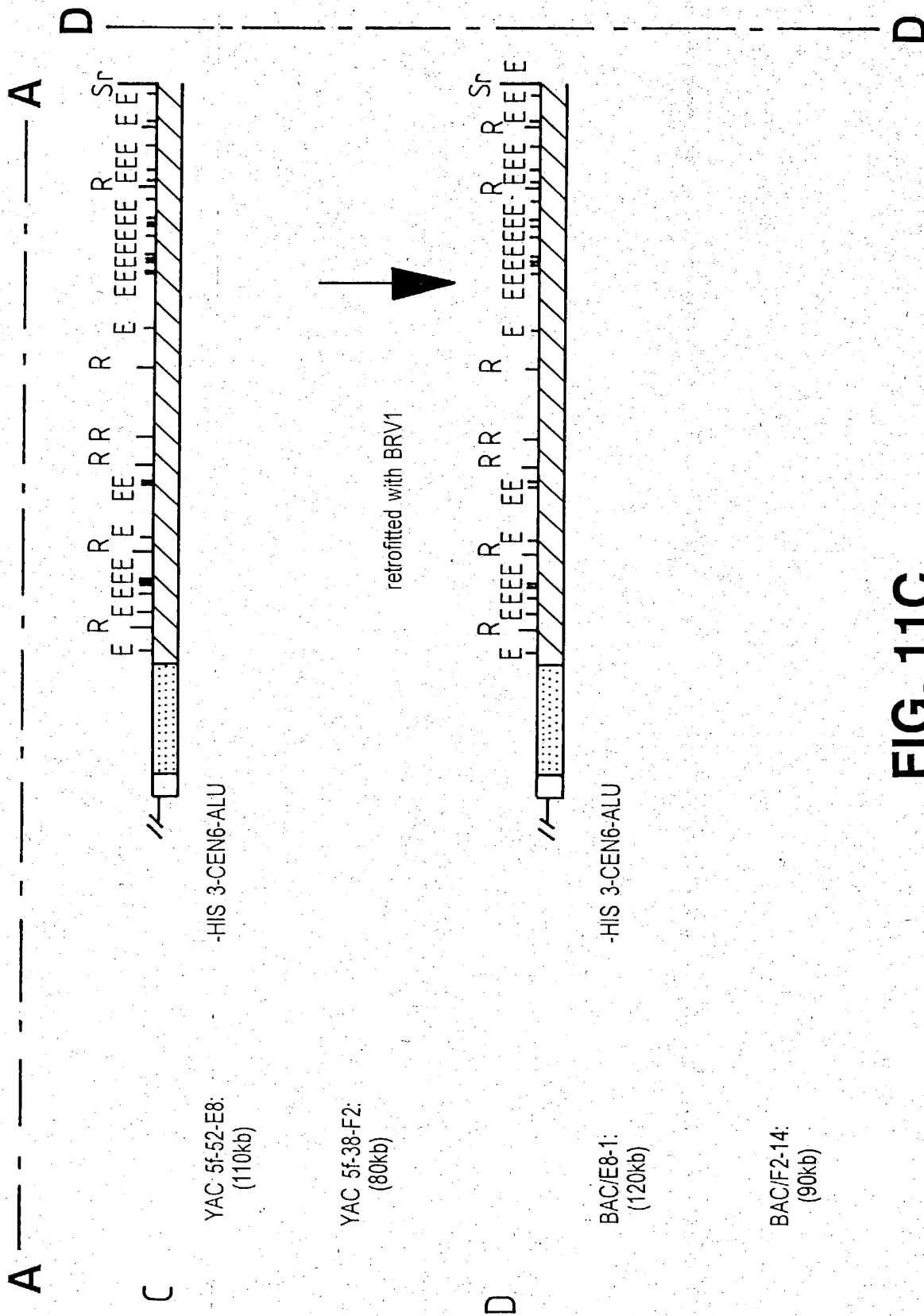


FIG. 11B



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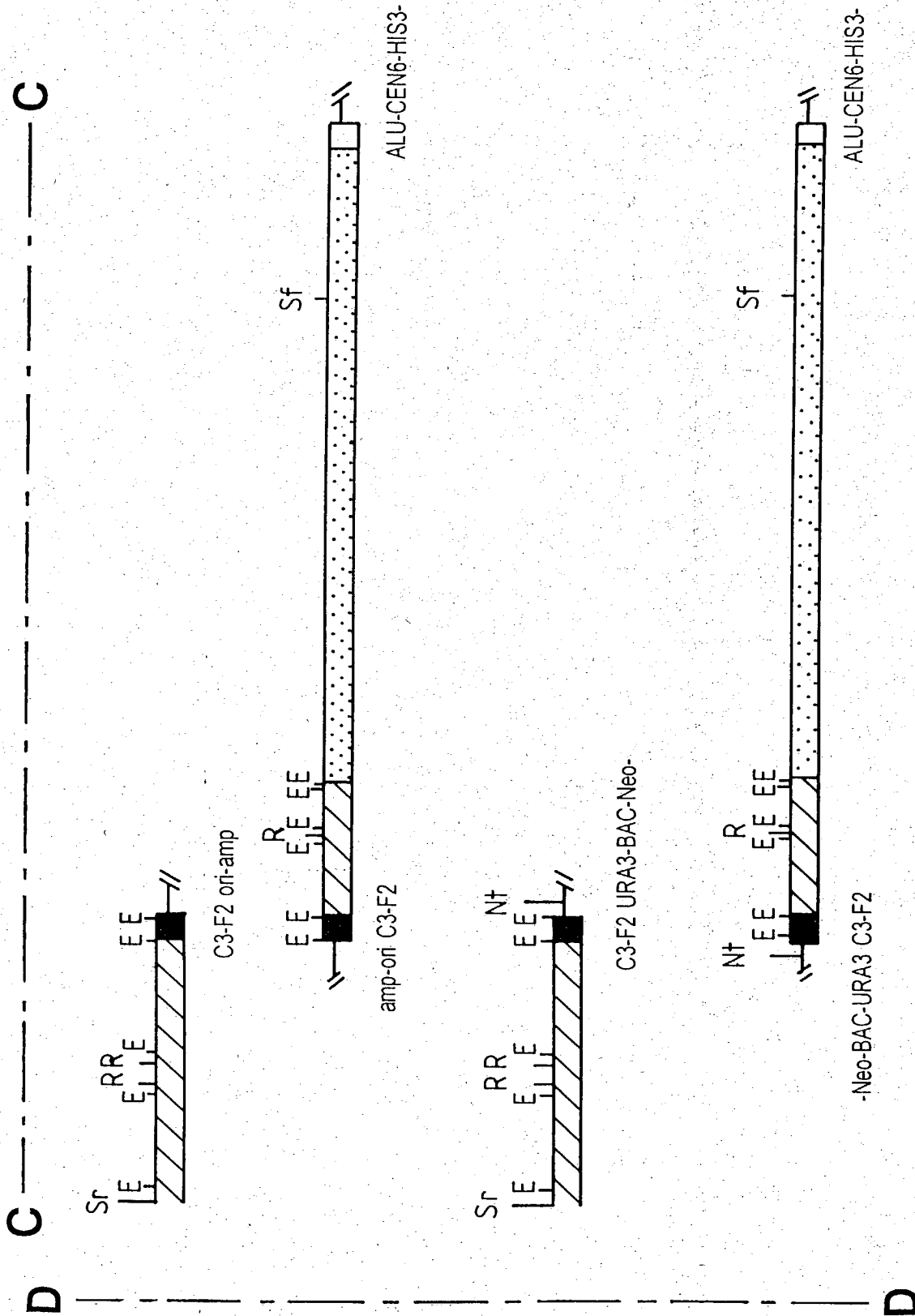
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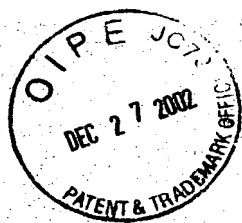




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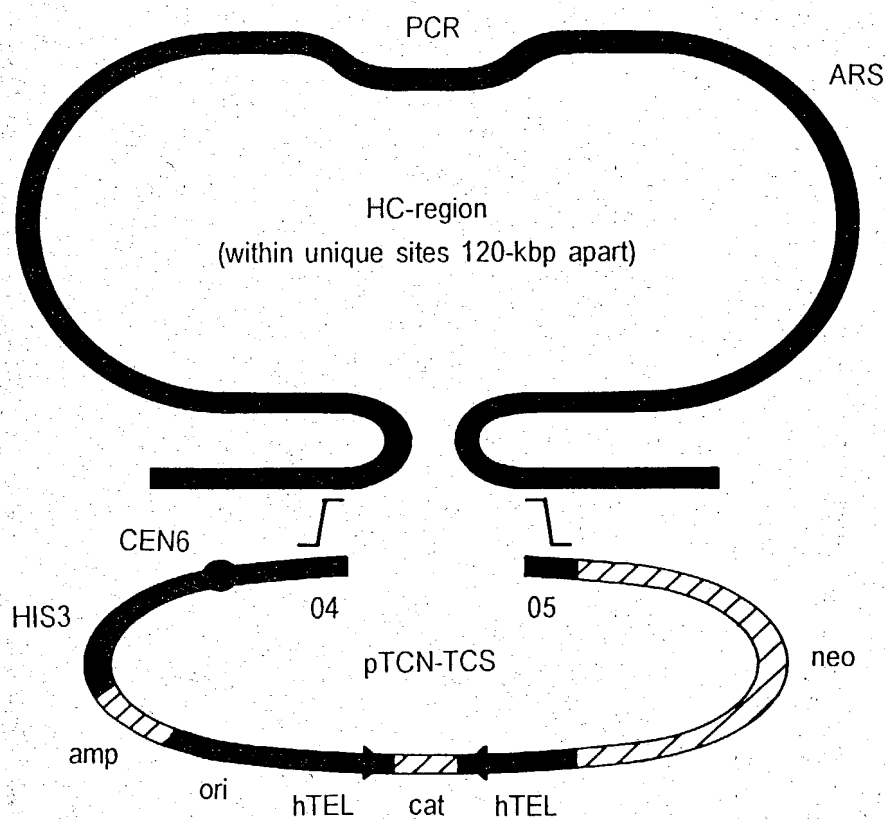




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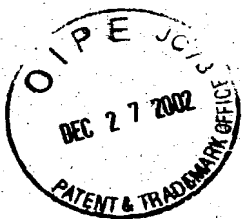
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Specific TAR of HC-region from mar (del) 10



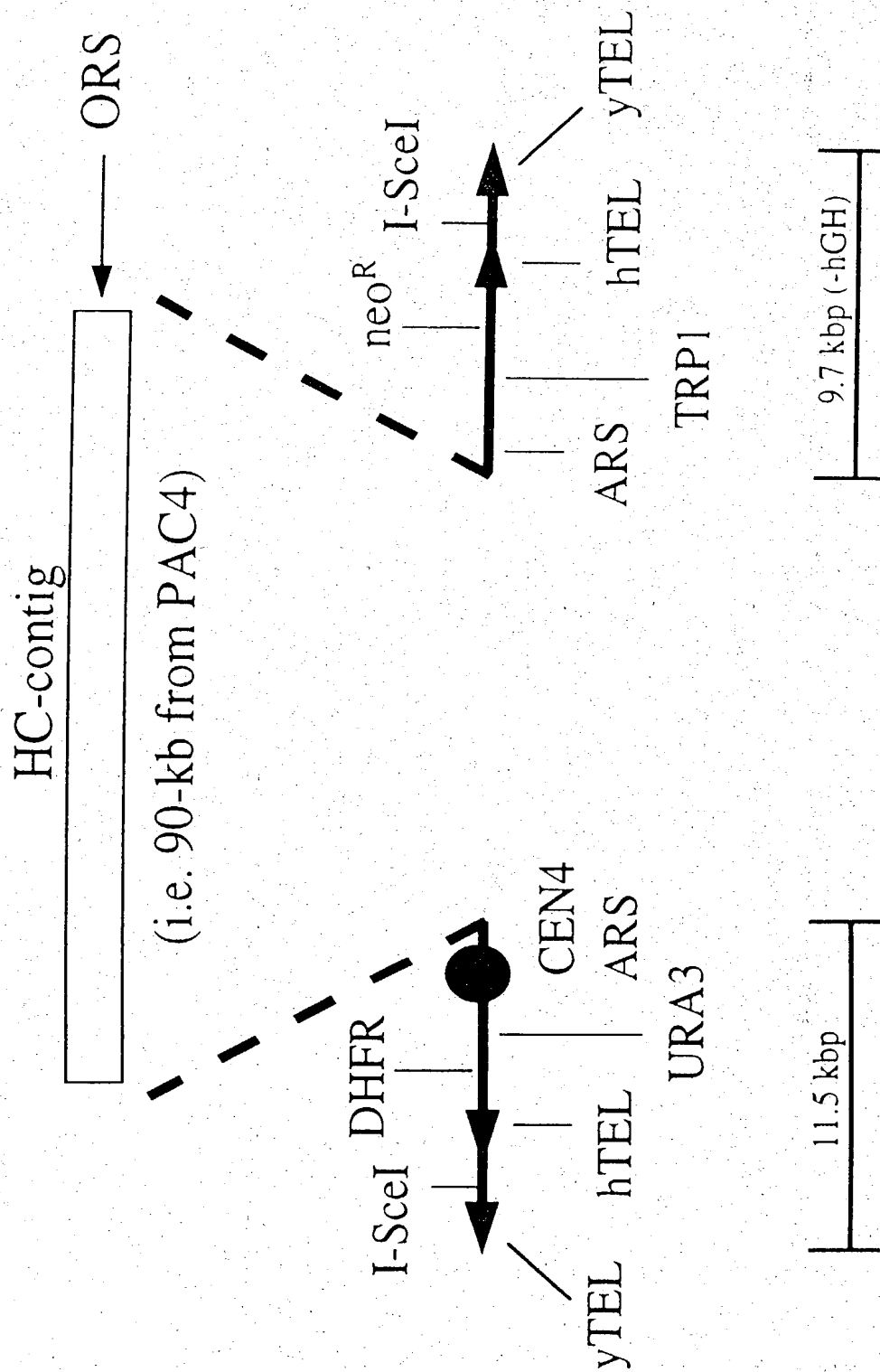
1. Co-Transformation into YPH857
2. Select for HIS⁺ colonies
3. Screen for HC-region by PCR
4. Prepare high-MW DNA
5. Digest with I-SceI to expose hTELs
6. Transfect HT1080 cells
7. Select for G418^R
8. Analyze by PFGE and FISH

FIG. 12



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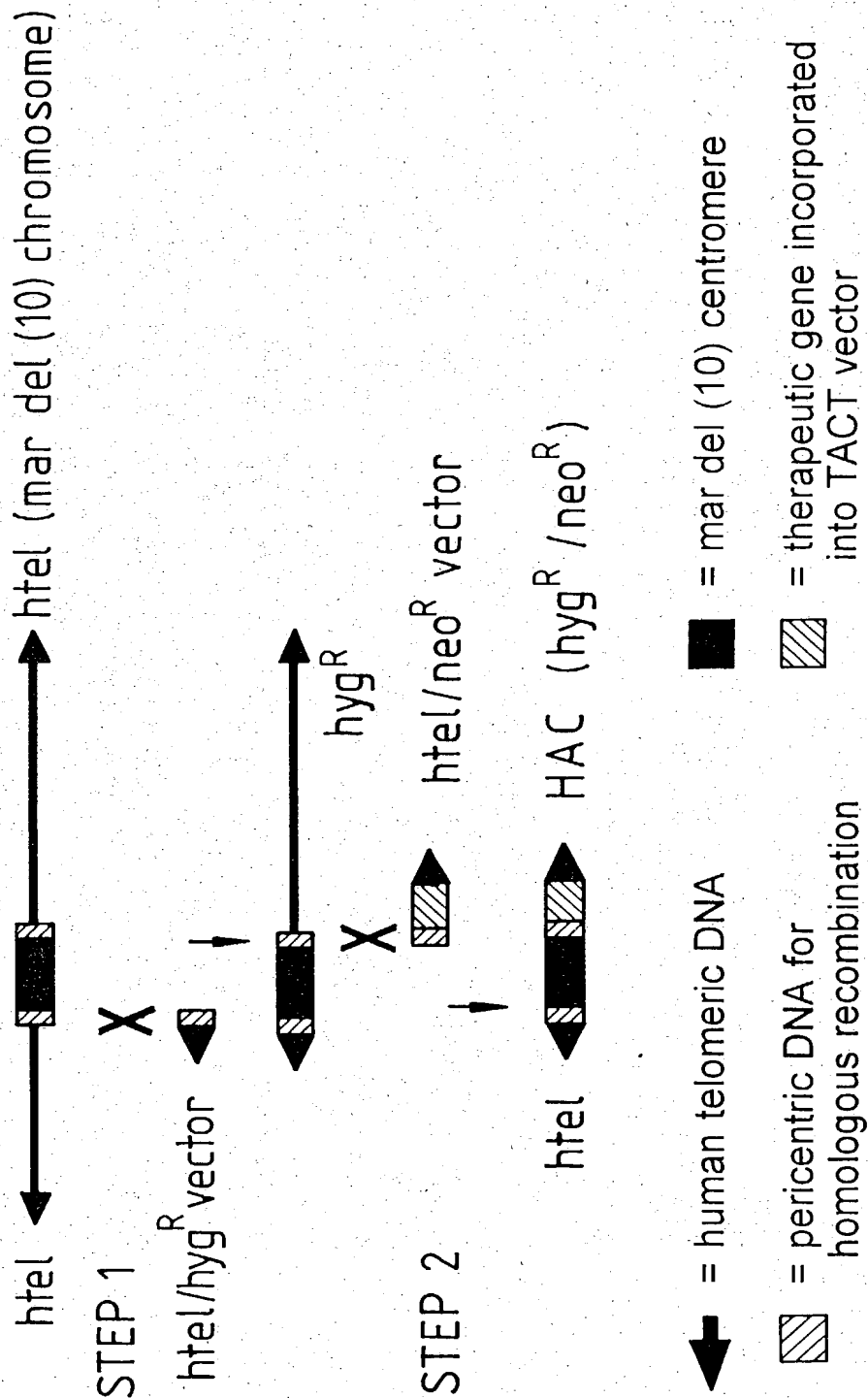
Cloning in Yeast as YAC/HAC

FIG. 13

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FIG. 14

Outline of TACT procedure



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TACT constructs

FIG. 15A

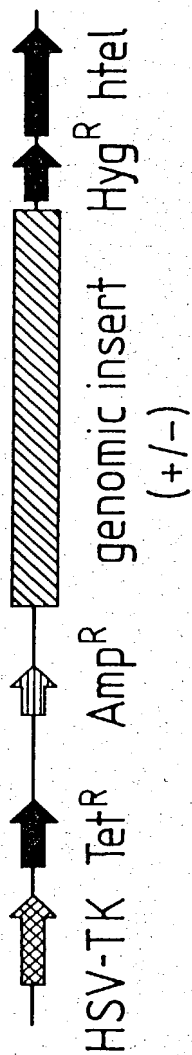
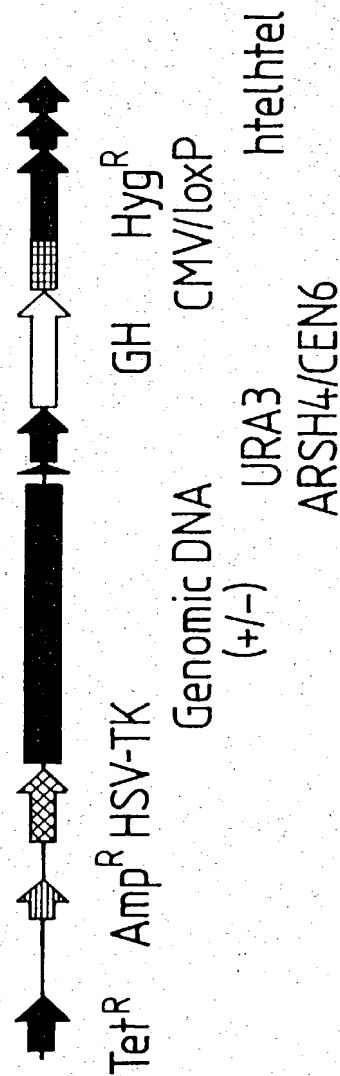
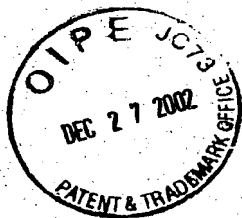


FIG. 15B





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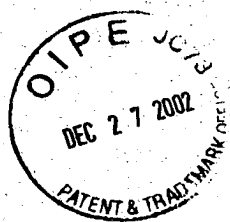
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NC-Contig (80225 bp)

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ACATTTAGTGTAATTATAGACATGGTTTGATTTGCTATACCATCTTTTCATTTGTTTATATGTAGGCC
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TATATCTAATTTGGCTTTTATGTTATACCTCTTAAATTTTTTTTCTGTTTTATGAGGATTTATAATAT
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ACAAAGAGTATATTTTCATTTCTGTCTCCCTAATTTTATGCTATTTGCTATAATACATTAGGTTTGTGT
TGTTTGTTTTTACCTTATTTGCTGTTGGCTGGGTCAGCAACATTTTTCTGTAAAGGCTAGATAGTACA
GGCATACCTTGGAGATACTGTGGGTTTGGTTCCATACCACCACAAATAATACAAATATGCAAGAAGTGGA
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ACTGTAGTCTGTTCAAGTGCAATAGTGTATGTTCTAAAAAACAACATACCTTAATTTTAAATGCTTT
ATTACTAAAAAATGCTAACAAATCATTTGAGCATTGAGTGAGTTGTAATCTTTTGTGGTGGAAAGTCT
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TTTAAACAACCTAAGTTAATAATAATTTCTGAATCCATTTGTTGTCATTTCAACAATTTTTCACAGTGTCTT
CACCAGGAGTAGATTCCATCTCATTTCTGAGATGGAATCTTTGCTCATCCCATAGAAAGAAATTCCTCA
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CATGAATGTCTTAATGGCACCTGGAATGGTGAATCCTTCCAAAGGTTTCAATTTACTTAGTCCAG
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AGGCTTGAAAGTTGAAATTTACTCCTTGATCCATTTTCTGCAAAATAGATGTTGTGTAGCAGGCATGAA
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GTAGCATAATTTCTTAAGGGACTTAGGATTTTTCAGAAATGGTAAATGAACATTTGGCATCAATTTAAATCAC
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A _____ A

FIG. 16A(1)



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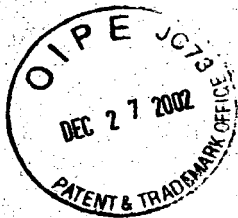
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A

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ATCCAGACCACTAAAACTTTATCCATATCAGCAATAAGGCTGTTTTGCTTCTTATTTGTGTGTTT
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GACTTGCTCCATGTAAGTTTGCCATAGCCCTTCAATTTATAAAAAACACAATATCTAGGAAAGTTCAATA
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GCAACTGCTCACCTCTGCCATTATAGCATGAAGCAGCTATAGAAAATATACATAAATGAGGCTGTAA
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TACTTGGGAGGCTGAGGCAGGAGAATCTCTGAACCCGGGAAGGGAGGTACAGTGAGCCCAAGATTGT
GCCACTGCACCTCCAGCCTGGGCAACAGAGTGAGACTGTCTCACAAAAAAGAAAAAGAAAAATA
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CTTCTGGCTTGATAGTTTCTCTGGCTGCCTTCAAGATTTTTCATTGTCTTTAATTTTAGCAGTTTG
ATGTGCTAGGAGTATTTCTTTGTATTTATCCTTTTGGGGCCTCTTAATTTCTTTGATCCTTTTTT
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B

FIG. 16A(2)



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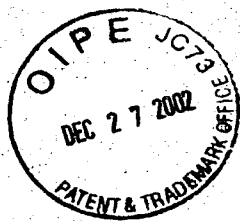
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B

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AGTTCACTGATTTCTTCTCAGTCAATGCTAGTGTCTCAACGCTGTGAAGAAATCCTTTGTCTTTA
ATAATCATGTTTTTATTTCTAGCATTTTCTGTAACCTTTTGTCTGTTTCCATCTCTCTACTCACTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGACAGAGTCTCGCTCTGTCAACCCAGGCTGGAGTG
TAGTGGCGGATCTCGGCTCACTGCAACTTCCGTCCCTGGGTTCAAGTGATTTCTCCTGCCTCATCCTC
CCGAATAGTTGGAATTACAGGTGCCCCACCCGCTGGCTGGCTAATTTTGTATTTTGTAGTGGAACA
GGGTTTCAACCATGTTGGCCAGGCTGGTCTTGAATTCCTGACCTCAGGTGATCCACCTGCCCTCAGCCTCC
CCAATTGCTGAAATTTACTGGCATGAGGCACCTGCACCCAGCTCTGCTGACATTTTATCTTTTGTGCA
TTTTGCTACCTTTTCCATGAAATCCTTTAACAATAGTAGTCATAATTAATTTCAATTCCTTGTCTGACA
GTTCTGACATTTCAAGTCTAGGTCTGTTAATACTTTGTGAATCTGTTAACAGCTTTTTCATTTCTTGT
TGTGTGTTTTGTATTTCTTGATTTGTATGCCAAATATTTGCCCTGTAAATAAACTTAGATAAGTCATACTT
CTATCCAGAAATAGCACATTTTTTGTGTCAGTCATATATGTGGAGGAGTTGGGCGAGTCTATCAGTGGC
TGAAGTATGTTGGATTTGTGATGCTATACCTTAGAATGCACCCAGACTTCCATTCACCTGCAAGAGTGGC
TGCTGCGCTTTGTGATTCATGTGAGGCTTGAATTTGTGAAGGTTTTTCCCTTAGTGTCTCCATGC
TCAGATTTCAAGCAAGTCTTCATATCTGTGCCACAGAAAGGAATCTGACCCATGCTCTTTTGAACCTCCCC
AAGTGATCAACTGTTGCTTGTATAGCTTGTATGGAGTAAGAGGGTGTTTTGTAGTTTTCATCTCTCC
AGCCTTGGCTTGGCCCTGAGCTCCTAGACTCCAGGAGTGGATCCAGTGATTTCTCAGTAAT
CAGCCCTTCTCCAGTAGTGGCAGATCTCTGCTTTGTATCAGTGCAAGATCCTGGGCTGAGCTCATTTT
CTGCCCTTCCCTCGAGTGGCAGACAGCTCTTGTCTTACCCCTTACCAAGGAGTGCATCTTTTCTTG
GGCTCTCCCATTTGAATTTATGACTTTCACATAAGAGAGAGGGCTCATGTATCAGAGAATTTCTGTGACT
TTGTGCCACATACAGAGTCTCTCAGTTCTCTTGGCTTCCCTGCCCCAGTCTTTTGTGAGCACCTAGTAGAG
ACCTTGGAGAGAGCAAGGAGCGAGTATGGACTTCTTTGTGCTGTGCGATTTGCTTTCTCTCAAC
TGCTACTCTTGGACTTTAAGAAATTCATTAATAATTTTCAAGTGTCTTTTCTTTTCTTTTCTTTT
TTTTTTTTTTTTTTTAGATGGAGTCTTGTCTGTTGCCAGGCTGGAGTGCAGTGGTGTGATCTTGG
CTTGTGCAACCTCCGCTCCCGGTTCAAGCGATTTCTCCTGCCCTCAGCCTCCCAAGTAGTTGGGATTA
CAGGTGCCACACACACCTGGCTAATTTTGTATTTTGTAGTACACAGGGTTTCAACATTTTGGTC
AGGCTTGTCTCAAACCTCCTGACCTCATGATCTGCCCGCCTCAGCCTCCCAAGTGTGGGATTAACAGGC
ATGAGCCACCGGCGCAGGCTCAGCTGTTCTCTTTTACCTGCTGGGATGGCTAGTTTCTGTGTCAAC
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C

FIG. 16A(3)



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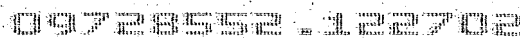
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C

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CAC
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CAGTTCAATTTTCCATCTCTTCTCAGAGAGGCTTGTGAGCCATTAGTTCTCTGATGGGCTCAAGAAATT
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CACATAAAGTACTGTTGATACCATTAATGTTGTGTTGAATTTATATCTTAGAAAAATCATCTGTCAAG
GTGTTAACTAATGCAAGCATTTAATAAATCAGCATTCTGTTTCAAGTGTCTGAAATTTCTGACT
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D

FIG. 16A(4)



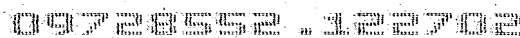
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AGCCTCTGAGTAGTGGTGTGCACCACACACCCGGCTAATTTTAAATTTTAAATTTTAAAGGT
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TGTCCTCCAAAATCCTGCAAGTAGGTAGGTTCTGTCTTTATTGTTATTAGGTGAAGAACTTGAAG
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W

FIG. 16A(5)

W



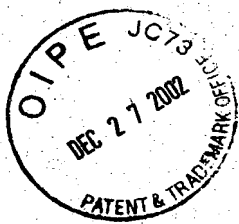
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W

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GATGGCAGTCAAGCATGAACACAACCCACTGTTTGAGAAGCTGTAATTTCTGAATTTCTGCAGAGTGCA
CATCTAGGCCAGCAAAATGGCAGTAAGAGTAGGTGGATTAGCTCAGTGAAGGATGAACCTCCAGAACC
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CCCCCTCCTGAACTCCTAGCACCTACAGGGACTCCATCCCTTGTGCCCCACATACCTCACACGTAGACA
TTCCCTAATGAAGATTGATTGAATATTGTAAACTCAGTGCCTCCACTCTTCTAGTTGCCCTCTCTGCC
TGCCCTTGTAACATTTATTTATTTATTTATTTATTTATGAGACAGAGTCTTACTGTATCACC
CAGGCTGGAGTTAGTGGCACCATCTCAGCTCACTGCAACCTCTACCTCCAGACTCAAGCAATCCTCC
CACCTCAGCCTCCCGAGGAGCTGGGACCATTAGGCACGTGCCACTATGCCCGGTTAATTTATTTGTAATTT
TTGTAGAGATGGGTTTTCATCGTGTGCCCCAGGCTAGTCTTGAACCTCCTGGACTCAGGCGATTCCGCCG
TCTCAGTCTCCCAAAGTGTGGGATTATAGGCGTGAGCCACCATTGCCAGCCGCTAGCACTCATCTTAA
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CTTTATTTCCCGAGTTTGTGGCACATTTCTAGGCACCTGCCATCATGAAATAAACCTCTGGAGCTGTGAT
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TGTATTTATTGACTGCCCTGATCTGGGCTGCTTCCCTGTCTGTGTTTCAAGGAGAGCATAGTCTACAGAA
CCAGAGACCTGGCTACTCTGGAAGTTAGACTTAAGCCCCACCCCGTCTTGAATGGGAAATATTTCCC
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FIG. 16A(6)



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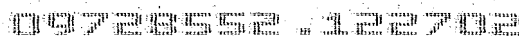
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GGCATAAACGTCTAATGCACCTGATGATGCTGATGTTAATTTGTTATCAGCTAAGATCTTTTCATAATA
AATAAATCTATCATTTGTAGGAGGCGACAGAAATCGTGGAAAGCTGGGATTCAGGTTGCCTGTGGCTTT
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AAGATGCAGCTGTCCATTTTCACTTCCAGTAWTTCCTTCTGAATTAATACACCTTAAAAATAGCTGCA
GCTTCTCAATCTGTGAGAAATCGTATGTGCTGCTTGTACTCTTTCTTTTCCCGAAGGCTCTTTTGAG
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FIG. 16A(7)

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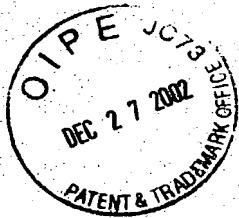
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CAACTGGTTAACGTAGAGCTAGGATTTGAACCCGGATGGCTGATCCCAGAGCTCATGCTTTAAATCGC
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FIG. 16A(8)

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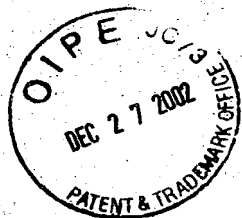
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H
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FIG. 16A(9)

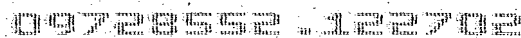


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FIG. 16A(10)

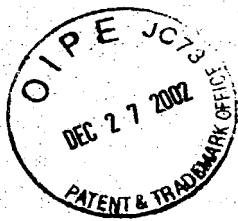


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FIG. 16A(11)

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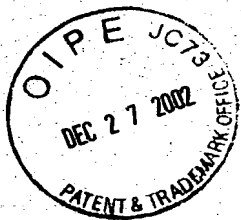
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K

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FIG. 16A(12)

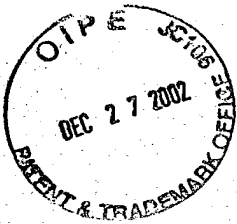


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FIG. 16A(13)

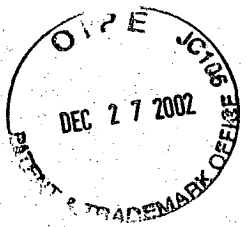


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TTTTAGCCAGTTATGCTACTAGCCAACTACAGACAACACACACTTTTAAACCAATTAGACTAATAGTTG
TCATCAGTGGAAATCAAGTTTGCCATTCTTCCATGCCCTTGCTCACACCAATTACCTTTTCTGGAATGTC
CTGTACTCATCTTCTGTGTTGAACCTATATACCCAACTTTAAACACCTAGCTCAAAGTTCAACACTTCC
ATTCCATTTCAAAAAGAGCTTTCCTCTTCCCTTAAAGTTTAAAGAACTCATTTTCATGAATCTTTTGGCA
TTTATTGCACACATGCTTGTGTTTATTTGTGTTTCATGCTCATATGCCCCCAAGGTGTTTAGAC
TCCTTAAAGGCAAAATGATGCTCTAAACACCTTCTATCTTTCATAGTGTCTTAGTCTGTTGTGTTG
CTATAAAGGAATACCTGAGGCTGGGAATTTATTTAAAGAGAGTTTATTTGGCTCACAGTTCTGCAG
CTATATAAGAACATAGTGTGAGCATCTGCTTCAAGTGAAGGCTTCAGGAAGTTTCCACCCATGGTAGA
AGGCAAGGGGAGCAGGCATCACATATCAAGAGAGGAGGAAAGGAAAGGAAAGGAGGAGGTGCCA
TTCTCTTTCAACAATCAGTTCTTGTGGAACTAATGGGACAAGAGGCTGGGCACGGTGGCTCATGCTG
TAATCCAGCCCTTTGGGAGACCAAGTGGTGGATCACCAAGAGTCAGAAAGCTGAGACCGCTGGC
CAATGTGGTGAACCTCCGTCTCTACTAAAGATACATAAATTAGATCTAGCTGGCTGGTGGCTGTAC
CTGTAGTCCAGATACCTAGGAGGCTGAGGTAGGATAATCACTTGAACCCGGAAGACAGAGGTTGCAGT
GAGCTTGTGCCACTGCCAGCCGGGCAACAGAGTGAGCGGTCTCAAAAATTTTAAACACTTTA
AAATAATAGAGCAAGAAAGCAACCAAGTTATTAGGAGGATCCACCCCAATGACTCAAATACCTCCC
ACCAAGCCTCACTTCAACACTGGGATCAATTTCCGTATGAGATTTGGAGGAGACAAATATCCAACT
ATATCACATAGTAATGAACATAGTACCTTATCTATAGAAAGCAATGGCTAGACAACTGTTGAATGGCTA
ACCAATCTGCTTTCCTATGGTCTCGCTCTAGAGGGGTCAGTATGAGTTTCTGTCAAAAGGAGAAAAA
AAATGTATAGTCAGTTTGTGTGTGTGTTTATGTAAGAGATCAAGAGAAAGAAAGCAAGAGAA
ATCATGAAAGGAGGGGAATATAAGAAATATACATAGAAAGCAAAATATCTTGTATCAGTAAT
ACCAAGGGGTAGAAATGGTAAGTAATATCTTCTCACTTGTCTGAGTTCACITTTTGGCACCT
TTATTTTGATGAATTCACATCGAAGACATTAACCTCATTAGGCTTCCAATATTTTGGAGATAAGAAAG
GCTGCTATGCTCTTTATAGATGGAAACTTGGGTCAATTAATACTCAAAACAGGACATAACAAAGAAAT
GGAGCATAACTGCCAGGTCCTGACTGTAGATTTGGATTCCCAAGTTGGTCTTGTCAACCTTTGTIAC
TCTTCTAAAGTTATGATCTTTTCTGTGCATAGGAAATTCATAGTATTTCCCATCACCTTTGGATT
ATCATAGCTCCTTTAAGGTCCTCTATGCACTCAATAACATCAACAGTAAGTGTCTTCGAGCACTTA
CTGAGTGATATCATTTGTGTTCTACGCAGCACCCACAGATCTCAACGAAGAACCTAGCTGAAGCCTGTA
GAATGAATAGGTAAGTACTGCCATGCCAATCTGGAGTACTCAAGCGATGCAATGATTCCTTTAATTGT
ACTTTTGACGCTTGTGAGTTTGTCTCATGGAGAGTGGCTACTGCATCCATGTTATCTATGTAATG
TTGGACTGCGAAGCATCACTTGACTTTTCCAAAGCAGAAATTACAGCTGATGACAAGCTGCTGCTGAGA
AAATGGATATTTTCTGAATTCAGTTCTACGTGGAAACAGCTGACTAGTTTCCATTGCTGTAAGATGGC
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N

FIG. 16A(14)

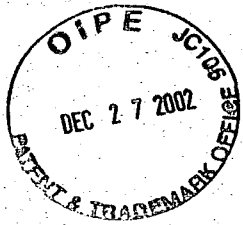


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N
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TTTTCTCATTAATTTGAATTTCCCACTTTTCTCTATTAGCAAGAGTCCAGTATCTTCTGAGAAC
TTCCTTTTCTCAATCTAGGAACCTTACTTGGTCCATAAGGTAAACAGTCTTATTCTGACTATCAAGGAGA
GAAATAACAGGAGCCATTATCATCTTCATGGTGTCACTTTTGAACACTGGTCTCTGTAGATCTTTCAGA
TTCTTGGCTTAGTCCATTTCAGCTGCTATAACAAAATTGCATAGACAGCATGGCTTATAAATAACAGAAA
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AGGCCCATTTGCTCATAGATGGACGATGACCTTTCACTCTGTCTGCACATGGCAGAAAGGCAAGAGAGC
TCTCTGGGCTCTTTTATAAGGCACTAATCTCATTTTGGAGACCTTCCCCCATGACTTAATCACCT
CCCAAGGCACTGTCTCCCAATACCATCACCTTGAGGTTAGGATTTCAACATATGATTTTGGGGGAC
AGAAACACGCACTCATCTCGCTTGCCACTCCATGGTGTATTTCTGCTGGATCAGTTTCTCTCTTGG
GGTGCAATTTGTTCCATGTCTAACTTGCAAGTTATAGCAGGCCGATAGCAAAAGTATTTCCAATGTTGG
TATGACAGAGGCATTGAATAATCAGAAATGAACCCACGCCATAAACAACTGGTAGAGCTGCAGAGAGTACC
AGCTGATTATGAGCCCTGGGTAAACAGTGGTTTATGTTCTATGTCCGTACGCCCTTTTCTCCCCATAGT
AGCCCCACTGTGTTGAAGTGGCTGAATCGACAGAAAGCTTCCAGCTTGGGCCACATGCTCATGGAAACAA
TTCTCCTTATGAGCCGTACAAAGAGCTGGGTTGCCATTCTGGATACCTCTTCTTCAAGAGATTTTATT
TCAAGGATATTTTCTTTTATCAACTACAGGGATTTATTTAGAACTTTAGGCGAGTGGTCCCCAACCTT
TTTGGCCCCAGGACAGGTTTGTGGGAGACAAATTTTCCATGGACCAAGTGTGAGGGGCTGGGAGGCA
TGGTTTGGGATGAGTCAAGTACATTACGTTTGTGTATCTTTATTTCTATTTATTTATTTATTTGTAAT
ATATAATGAAATAATTACAACTCACCAATAGTGGAGATAGTACAGATCATCAAGCATTAGATTTCTCATAA
GCACTAGACAGTCCCATCTGGGGCAATGGGAGATAGTACAGATCATCAAGCATTAGATTTCTCATAA
GGAGTGTGCTAGCCTAGATCCCCGGCATGTGAGTTTCAAAATAGGATTTGCTCACCTATGAGAACTTAAT
GCCACTGCTGATCTGACAGGAGGTGGAGCTCGGGCAGTAATCGAGGGTTGGGAGCAGCTGTCAATAT
AGATGAAGCTTTGCTCGCTCGCTGCCACTCACCTCCTGCTGTGTGGTCCACTTCCCTAACAGGTACAG
ACTGGTACTGGTCCATGGCCAGGAGTTGGGACCCCTGTCTTAGGGAGTAGGGGTGGAGTTCCCTTCACT
TCTAGAAAGCCCTGGATTAGTATCCAGAGCTGTCTTACAGAGTATCACAAACCAAGGTGGCTAAAAAC
AGACATGAATTTCTCTTATTTTGTATGGCTTGAAGTCCAAAGTCAAGGTGTGCTGCCAGGCCATGCTC
CCTCTGAATGTGTAGGGGAGATCTTCT
GGCATCGCTTGGCTTGACGCACTTCAACATCTGCTTACTGTCTCATAGTGTCTCTCTCTCTCTCTCTCT
CAGGTCT
AGTATGACCTCATCTTAAGGTCACATGCAATGACTATTTCCAGATAAGGTACATTTCTGAAGAACTGGGA
O

FIG. 16A(15)



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GTTAGGACTTCATATCTTTTGAAGGAACACAGTTCACCAATAACAGCCCCCTGTACTGTGTTTACAAATA
GGTATTCCTCTCCTTCCCAAGTTCTTCATAGCAGAGACAACTTGACCAAAAGGCAAAATACCTTATT
ATGTAACCTTAACCTAGGATCATAGATCCCTACTTGTCTGGTCTTTTATAAGCCACAGAACCCCGG
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ATTGAGGCGAGTGGATCACCTGAAGTCAAGAGTTTGAGACCAAACTGACCAGCATGACAGAACCCCATC
TTTACTAAAAATACAAAAATTAGTTGGGCATGGTGGCATGTGCTGTAATCCAGCTACTCAAAAGACT
GAGGAGGAAATCACTTGAACCGAGGATGCCAAGATAGCAGTGAAGCAATATCGTGCCACTGCACCTCC
AGTCTGGATGATAGAGCAAGATCCTGTCTCAAAAAATTAAATAATAAATAAAGACAAAGAAAGCCTT
TTCCAAGGAGACCCTTCTGCTTGTAGTTGAGAACTTCTCTTTGGAGAAACAAACACCCAGTCCA
TTAGCAGCAACGTCAGGGATTGAATTTTAGGGCAGCAGGCTGGGCACAGTGGCTCATGCTGTAATCC
CAGTACTTTGGGAGGCTGAGATGGTGGATCACTTGACATCAGGTGTTTCGAGACCAGCCTGGCCAAACAT
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GTCTCAGCTACCTGGGAGGCTGAAGCAGGAGAAATCACTTGAACCCGGGAGTTGGAGGTTGCAGTGAGCT
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ATGGCAGAGACATACCTGTAAACGTAACCTGACTGGGCAAGACAAAGGTGAGGAAATGACAAGTTGA
GGAATATGAGACCCAGGAGTGGGAACACCACTAGCAGAAATGATGGAAGTTCTCAAGAAATAACAACA
GAGAAATAGACCATGGCCAGAGTCTAGAACCTCCAGGGAAGAGATGGCTCCAGAGGCAGAGAGG
ACGTTGAAGGAATGGGAGTGGGTGAAATATATAGACGATGGGACCAACCCAGAGCAGTCGCTATTG
CAAACTGAGGAGAGGAGTCTGGAGGGGTGGTGGGAGCTGGGTCTCTAAGGAGGTTTGAACA
AAGCAGTCATGGAGCGGCTTAGAAATCACAGTTGGGACAGGTTAAAGTTCTCGGGATATAGAGGAT
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GTGGGTGGAAGTGGCAGAGAAAGAGGGGTTTGAGCAGAGAGTGGTGATTTTCTAATGCAGAGTTGTGG
GAGGTGGAGTGCAGGGAGCCAGGCTGGGTGGCTGTGATGATTAAGCACTTACTGACTGCCAGGC
AATGGGCTAAGTACCTGAGATGCTTTGTCTGTTATCCCTCCGAAACCCCTCTGAGCAGGTGCAGTTAT
TATTCTCACTTCACAGATAAGGAAATTGAGGCACAGAGAAATTGAGTAACTTACCCAAAGGTGACATAGCT
CATATATGTTAAGCAGGCTTTGAACTCAGTCTAGCTCCCGAACCTAAGCTTGTAACTACTATGCTTTT
CCCAAAAAAGGGGCTGGCACAATAAGAGCTGAGGGGGCTGGGCATGGTGGCTCATGCCCTGTAATCC
CAGCACTTCGGGAGACTGAGGAGGTTGTTTACCAGAGGTCAGGAGTTCGAGACCCAGCCTGGTCAACAT
GGTGAAGCCCTGTCTCTACTAAAAATACAAAAATTAGCTGGGTGGTGTGCACCTGTAGTCCCAG
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P

FIG. 16A(16)

P



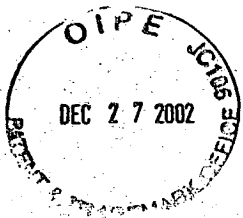
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P ATGCCACTGGACTCCAGCCTGGGTGACAGAGTGAGACTCCATCCAAAAAAGAGAGCTGAGGTGATG
GCCACCATCAGCATCAGCCTGGAAAGTTATAGCAGGATGCTAAGTTTCTCTAAAGCTGTCTTTCTTAGGA
CTTGAAAAGATAAAGTTGGTTTGTATCCCATCTCTGCCATTAGTAGTTTACTGGCTTTGGATAAATTA
CTTAGCCTTACTGAACCAACTTTGGATTTTATAGAGATACTGTAATGAAAGGAATAAGGTATCAGTCT
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TCTGCCTCCCTCAATTCAATTGATGAATGTCTCAGTGAAGTCTTCTCTCTCTCTCTGTAAAGTATAC
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GGTCTAGTAGCTGAGGGCTGGCTGGTCTCTCAGATATAGTTCAGATCTCCTCCAGGGGTCTCTCCA
CGTGGCTAGTCTGAACCTTCTCACAGCATGGTGGCTCAGGGCAGTGGACTCTGCATAGTGGCTGAAG
GCTTCGCAGCTGAGTATCCAGCAAGCAAGTGGGAGCTGTATTGCCCTCATATGACCCAACTTGGAAT
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GAAGTATTGCGGTGAGTATGAAAAATTTGATTGCTGTCATCTGCTTACTTTCTCCACAGCGTTTCATG
ATCTGCTTCTCACATGATATTGACTTACGTCTATTCTGCAATTTCTGCTTCTCCACACTAAATGTGAGC
CTGTTTGTGCTGATCCCCAGAGCCTAGCAGGAGCCAGCATGTAGTGGTATCCAATAAATA
CTTGTGCAATGAATCTGTCTTTAATCTAGCTATAGGTTTCTAAGTTAAATATTACTATAATC
ATCTTACAGACGAGGGAATGAGGCTCAAGAAAGATTGGTAACTTATGCGGATCACTCAGCCACATAA
TGGAAAGACAGCATTTGAAGTACACATGCTGCTGCTCTCTTCCAAGCTGCTCATCACACAGCTG
CACCTCTGAGGACTTCCCTCCCAAGTCCACCTCCACCTTACCCAGAGACACACATGGCCACAAATCCAC
TAGCAGACCAAAATTCATTTTCCCCAGTTGGTTGCACTCAAGCTGAGAGCAAAAGCAATTGCACCTTA
AATCCCCTTACAGCAGATATTTCAGAGCATGTTGGAAGAACCCCATCACACTTGGCTTTTAGATCTTAT
TTCTGGTTGTTACAAAAACACAAATTAATGAAAGTTAGGTAGCTTTTGAATGGCCAGCTCAAAGTTT
TGGCTTATTTTGCCTTGTCTTTATAGGCAATTTTACCAATATTATCACTATTTCCTTAGGGAAC
CCTTAGATCTGTGATATTGAAATAATAAAGCCTCTCCATTGGCCCTTTAAAGGTTTGTGGTAAACC
ACACCATTAACATTACAGTTCCCTTATTATGAGGCTGATTGCACTTATTTCATATTTCTCACTGTT
TCTCCGATGAGGATTTACATAAATAGTGTGAGGCTAAAGACTTCAAGCAGATCTTTACTATTTT
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Q

FIG. 16A(17)



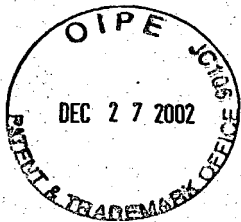
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Q
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TAAATATATATGCGCTTCTTTAAATGTAGTCTGAAGTGAGGCTTTATCTTTCTTTGCTCCAG
ATTTTTTCTACCGGTCAATTACCAAGCATCTTAAACAAAACCTAAAACAAAATCTTCTTGACCTG
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TGACATCTTGCTTCTCACTTGGCACCTTACCCAGTGTTCAGATTCCCTCCTTTAGGATGTCTTCAGAG
CAGCTACACAGTTGGTACTATAATTTATACATCCTTGTACACAGGCTTGTGGGATATTGATGGAGAG
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CAATAGTGTTCATAGTGGCTAIGGAGAGAACGCTCACTAACTTTGTTTAAACAGTTGTTCTTTCAAGGA
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CCATGCTACTTGCTCTAAAATATTTTATTTTATGTTATTTTGTACATTTCTTTACCTACACAAACACCA
CTGTTTCTTCTTCTAGTCTATTTAAACCTCACACCTTTCAGCATCTCTTAATTTTACTACCA
TCTGTTAGTTCTCCTGCTGAATGAACAAAAATGGCAGATGTAAACGAGGGCGAACAGATTTTGTG
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TAAAACTCTATTAAAGTAATTAGGAAAATTAACAAGAACAGTGAATTTCTTAATGAATGGCATGTAATCA
AACTGTACTTATCGTCTAATTCATAATCTTGAATGTTTTTATTTTATTTTATTTTATTTTATTTT
GAGACAGAGTCTTGCTCTGTCAACCCAGGCTAGAGTACAGTGGCTGATCTCAGCTCACTGCAACCTCCA
CCTCCAGGTTCAAGCGATTTCTGCTGCCTCAGCTCCTGAGTAGCTGGGATTACAGAGGCTGCCACTG
CACCCGGCTAATTTCTGTATTTTATAGTAGAGATGGGTTTTCACCATCTTGGCCAGGCTGCTCTGAACT
CCTGACCTCATGATCCACAGCCTTGCCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCCAGCCT
GGTGAATGTTTTTATTTTGAAGAGACAACATGGGCCCTTAAATCTGTCTTCTATTTGACAGACTTG
ATGGAGTCAAAATCCCAATGCTGCCACTTACTGAACGGCCTTAAATGACTTAGTCTCTCTCAGCTGTCTT
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FIG. 16A(18)



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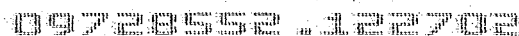
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TAGCTCCGCTGTAAATCCCAACACTTTGGGAGGCCAAGGTGGCGGATCACCTGAGGTACAGGAGTTTA
AGACCAGCCTGGCCAACATGGTGAACCTGTCTCTACTAAAAACGCAAAATTAGCCAGGTGTGGTGG
CATGCACCTGTAGTCCCAACTACTCAGGAGGTGAGGGAGGAGAAATGCTTGAACCTAGGAGCTGGAGG
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GCTTTGAAATTTGTAAATGAGTTGTACCTATCTTCAATTAAGAAATTCATCTTTGTTCACTATTTT
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ATTTTCATTTGAGAAGGGGCCCATTTGGGTTATTTAGATTCTAAGAACTGAAACTGCTTTCTGTTT
TTCTGGCTTCTGGGAGAGGAGGACATGAATTCAGTTAGCACCTTGGTATTTTCTTTATCCTTCAATTT
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CTAGCTCAGAAAGAGCCAGCTGATTTATTTAGTTGGAATTTAGAAATTTTAAATAATTTCTAAAGTC
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CATTTGAGCTTCTGAGGGGCCACCCAGGACCTATATCTGCTCAGATGTTTAACTCATCTAATTCAGTGA
ACACTTCATTTAGTTAACTGAACATCTACTTTGTACAGGCACTACAGCGGTTTCAGAGATGAATAAAA
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GCTTCCCTGCAGCGTAGAAGTCAAACTCAATGCCTGCAGAGGCCAGCTGACAAACATAAGTAAATGA
TTCTGGCTGGGGGAAACAAATTACGGGTGGTGGGTTTCCAGTGGGGAGTGCACGCTGTGTTAAAG
GACAGCTGCTACTCATTTCCAGCCAACTGTGTCCCATGTAGAAGTGCAGGCTGTAGCCAGTACCG
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FIG. 16A(19)

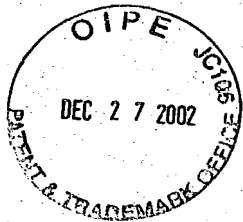


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FIG. 16A(20)

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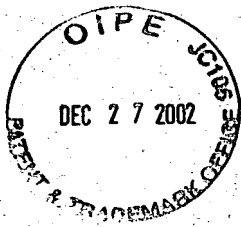


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T
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ATTGCTGCTAGGCAGATGGCTGACCACTAGTGGGCTCGGCTCACGTCCAGGTAATTGGTTGCTG
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TTCCATTTTCTGCCCTCCTCCATGACTGGGTCTGATGGTTGATCCAAACGGGCAATTGAAATCAGAAG
GTTACCTTTACCTTAAATGCTTTTCTGGAAATAAAGGACATGAAAAGTAACTAAGGACCGGATTTCC
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CCTCTAAATGAGGGCAAGTGGCTAATTATGCCACATGTGGCCGATTGCACTCCCCATTAGCCAAATTA
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CATACAGAATTCAATTCATCAACAACATCTGTCAATGTTTACACTGTCTGAGAAATTTGGAAA
ATGATGAAAGACTCAGTCTGCTTGGAGGTCACTGGCACATTTGGCCCGGCCCTGTTTGGGCCCTT
TTACTCTGACCTGTGCTGATTGCAAAATAGTGGGAAATTTTATCTCAAGTCTAGGAAATCTGGCATGCA
CTTAAACACTGTGGTGTGCTGTTGTTTGTGTTTGTGAGACGGAGTCTTGGTTACCTTCATTTA
CCAGGCTGGAGTGCAGTGGCATGATCTCCGGTCACTGCAAACTCCACCTCCAGGTTCAAGCGATTCTC
ATGCCTCAGCCCCCTCAGTAGCTGGATTACAGCGCGCACCACTGCCCCAGCCAGAACTGTGGTTTAAAT
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FIG. 16A(21)



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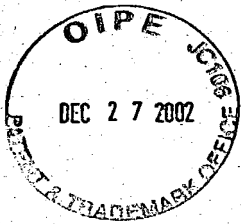
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GTGTTGTGTGCTGGGGGTCAGTGGTGCCTGTGGCCCACTGGAGAGGAGACAGCTATGGCTGGAGTGA
TTCTCAAACCTTCAGAAATGCTAAATCATCATGACATGGACAACCTTATTAAAGGAAAGCAAAATGCCTGGGCTC
CATCCTCAGAGAGTCTCATCTCACTGGGTCAAGGATAGAGCCCAAGGAATCTTACCTTAAAGAACCATCCC
ACCTCCACCTCATATGATCCTTATGCAGGTGATCTGGGGCCCCACACTTGAAGAAATAGACTCAGGTC
AAAGTGGCTCTAAGTGCATCTCATTTCTTACCTGGCATATCTAATAGTAGAGAAGAACATGCTAA
GATTTTGTGGAGATCTTTTGTCTGGGATTGCKGSTGTCAYYCAKTCAYTCAATTTAYYTAWWTAKTAK
TYAWTKTGAACAGAGTCWCAATTTGTCAACCRGMMGGAGGCGAGTGGCACAACTGAGCTCACTGCA
GCCTCAGGCTCCTGGGTTCAATCGATTCTCTGGCTCAGCCTCCCGAGTAGTGGGATTACAGTCATGC
ACCACACGCCCCAACTAATCTTGTATTTTAGTAGTGACAGCGTTTCACCATGTTAGCTAGACTGGTC
TCGAACCTCCTGACATCAGGTAATCTGCCTGGCTCGGCTCTCAAAATTAGTAGCTGCAATTACACGTG
GAGCTGCCGTGCCCTGGCTGCTGTTCTTTTAGTTGGGCTCTCTGTAATAGAGTGTGAGAAATTTCTGA
CTTGCTGCAACAGTCTGCTTTGAAGCAGGCTGTGTTTACACTGGTCAGATGTGGAATTTGGGGCACA
CTTAGCAGCTTCTCTAATTTTCTGTATTTTJAGGAGAACAATTTTAAAAAATTTAATAAAAAATG
CCTTAAAAATTAACATTATTATAAGATGAATCCCATTTTCTAATCTTGTAATTAATAAACATCATAA
GCATATGAGCACCTGCACCTAGGAAATCAAGGTGGCAAGCTAAACACTTCCAGCTCTAGGTGATTCGC
GGCAATACAAATGGAGCTGGACTTTGGCCACAGTGCATAAATATTGATCTGTTGTAGATGCTCTGAAG
TTTCCACAAAGAATTGGTTCTGCTGCTGCTTCAAGTGTGCTTAAAGGAAAGTGGTCTCAAAATGTTAG
TTTTTAAGCCCGCTTTCTTAAATAGGAAGATTCTAATAGTAGCAAAAAATATAAACTGCTTCTAGGTTT
AAAAAGGACCCAGCACACATGGTTATCACACACCTTTCTCCTCAGGTGATGAGTGGATGGCCTGG
TGTATTTTCAATAACATCTCCAGGTCCTCAATGCTAAAGCAATTTGCTGAAAGATACCATGTGTACCGGA
ACCTTGACAGAGTATTTTGTGGCATAAAAGAAATATTGATCATCTATAGTAAAAATGGTTCTACTTT
AATACTACTGAGAAAAGATTTTCTTTTCCAGATCTACATCCTGAATCTTCAATGAAGACAAGATCCCC
AACTTCCACTAACACCATAATGTGTGCTGCTCTTTGTAATGTAGTCCACAGATCTCATAACTGTCTAG
AAATAGCAGAGATTGTAAGGTCTATCCACTTCCCCCTGTAAGGCTTCCCTCCTTACATCCCTAATA
ACGTCCTCTAACCTCTGCTGGAGGGCAGATTTAGCTGCCAGCTGGGAAGAGCTCTGCCCTAGTCAACAT

V

FIG. 16A(22)



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V

TTTTATCTGTGGCTTTCAGATGAGAACACTGGATGCTTATCTGAAAAAGCTCCTCAGGCTGGAGGGAG
GGATTGGCTCTAACAAAGATGCAATGTGATAAGATAAAAGCGAAGCCAAACTCTAGGCCCAAGGCTCT
AGCAACACACTTTTGAGAACCTTGAGACGAGTTTGGCTGATGCGAGCTTCTCCGCCCTGCTAAAGTAG
CCCATTCATTTGGACGGCTCTAGAGGCTGGCATGTTCTTCCACGTTGTGTTAATGTAAGTCCAGTTT
CTTCCTGCCATGAACCTGGCATGCCCTGGCTCCTCCTACCTTCCCACTTTAAGTCTTCCCTCCCTCCTT
CTGACCTTCCCATCCAGCCACACTGGCCTTTGTCTGGTCTTAACAAACCATGCGCTTCTGCGCTCCA
AGCCCTACACCTGCTATCCATCCCTCTGTCTGAGAGACACTCCCAACCTTCAACAAAGCCTGTTTCTCA
TCCTTCCAGTTCAGATGCTTCTCAGCTTGCTCAACTGACCTCTTTCAGCTATTCTCAGCTCTTTGTAC
TCTGTTCAATTTCTTCCCTGGCAGTCCACATAATTTATCTTTATTTGAATCAATTTCTTAGTTGATTAT
TTAGTTATTTGCACACTCTGTCTCTGTGCTTTCTTATTTCACTGCAGGCTTTCTTATGTAAGTAAT
TATTTACTTAAATTTTAAATAAATAATTTCAACTTTTGGCCGGGCACAGTGGCTCAGCCTGTAATCCCA
GCACCTTGGAGGCCGAGGTGGTAGATCAGCTGAGGTGAGGTTGAGACCTGAGACCTGTAATCCCA
TGAATCCCATCTCTATTTAAATAACAAACTAGCCGGCTGGTGGTATGCACCTGTAATCCCACT
ACTCGGAGGTTGAGGAGGAGAACTCACTTGAACCGGGAGGTGGAGTTGCAGTGAGCTGAGATCAG
CCATTGCACCTCCAGCCTGGGCACGAGAGTGAGACTTCATCTCAAAAAACAAAAACAAACCCCT
GCTTTTCAGAGGGCTGAACATAATTTACATTTCCACCAATAGTGATAGCAATTTCCCTTTCTCTACAG
CCTCAGTAGCAATTTACTTTTAAATAAATACTTTTAAATAAGCAATCTGACTGGTATGAGATGGTATC
TCCTTGTGGTTTCACTTGCAATTTCTGTGATGATAGTGATATGAGCAATTTTATGTTTGTGGCT
GTTGATGCTCTTTTGGAGAGTGTCTTTTCATATATTTGCCCCATTTTGAATGGAGTTGTTTG
TGCTTGTGAATTAAGTTCCCTATAGATTTAGATATTTAGACTTTTGTGGATGCATAGTTTGTGAATA
TTTTCTCCCATCCTATAGTTCTGTTTACTCTGTTGATAGTTCTGTTTGTGTTATGTTTGTGTTTGTG
TGACAGAAGCTGTTTAACTAATTTGGTCCCACTTGTCATTTTGTGTTTGTGCAATGGCTTTTGAA
TTTTAATAATAAATTTCTTCCTAAGCTGATGCCAGAACAGCAATTTCTAGGTTTCTCTAGGATTC
TTATAGTTCAAAGTCTTATATTTAAGCTTTTAAATCCACCTCAAGTTAATTTTATATATAGTGAAATGC
AGGGTCCCTGTTTCATTTTTCATGTTGGCAGCCAGCAATCCCAAGCAATTTTATGAATAAGGAAT
CTTTTCCCTCATTGCTTATTTGTCAACTTTGTCAAGATCGGATGACTGAGGAGTGGCTTTTCTG
GGTATCTACTCTGTTACATTTGGTCTATGCTGCTGTTTGTATCAGTATCATGCTGTTTGTGTTACTA
TGGTCTCATAACATAGTTTAAAGTTGGATAATGTTATGCCCTGCTGTTTGTGTTTGTGTTTGTGTTG
TTTGGCTATTGAGGCTCTTTTTCACCTCATATGAATTTTGAATAAGTTTCTTAAATCTTTTGAATAA
TGACCTTGGCAGTTTGATAGGAATAGCAATGAATCTATAGATTGCTTTGGGCAGTATGCTATTTAATG
ATATTGATCTCTATCCATGAGCATGGAATATTTTCCATTTGTTGTGTCATCTACTATTTCTCTT

W

FIG. 16A(23)

W



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W
AGCAATGTTTTAGTTTTCTTTGTAGAGATCCTCCTAGGTATTTTCATTTTTTATGTGACTATTTTAA
TGGGATTGCATTTCTTCATGTGGCTCTCAGCTTGAATGTATTGGTGATAGAAATGCTACAGAGTTTTG
TACACTGATTTCTGTATCCTGAAACCTTACTGAAGTCATTTATCAGTTCTAGGAGCCTTTGGCAAAGTCT
GTAGTGTCTTCTAGGTATAGAAATCATATCATTAGCAAAGAAAGATAGTTTGACTTCTCTTTTCCTATT
TGAATGCCCTTTTATTCTTTCCCTTGTCTGATTGCTCTTCCAGTACTACGTTGAATAGGAGTCTGAGA
GTGAGCATCCTTGTCTTGTCCACCTCTCAAGGGAATGGTCCAGCTTTTGCCCATTCATATATGATGT
TGGCCATGGGTTGTACAGATGGCTCTTATTATTTGAGGTGATTCTTTGATGCCTAGTTTGTCAA
AGGCCTTTATCATGAAGGGATGTTGGATTTTATGAAAGCTTTTCTGGGCTTATTGTTGTAATTGCA
TTTATTGAATTGTGCATGTTGAGCCAAACTTCCATCCCAGGGATTAAACCTACTTAATCATGGTGTAA
CTTTTGTGATGTGCTGGATTGGTTTGGCTAAATTTTTTTTTTTTTTTTAAATGGATTCTCCCTCTGT
CCCCAGGCTGGATTGCAGTGGTGTGATCTTGGCTCACTGCAAGCTCCACCTCCCGATTTTCATGCCATT
CTCCTGCCCTCAGCCTCCCGATTAGCTGGGACTACAGGCACCCGCTACCATACCCAGCTAAATTTTGTAT
TTTTTAGTAAACACAGGATTTTACCATTGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGTATGCC
TGCCCTCAGCCTCCCAAAGTGGCTAGTATTTTTTAAATTAATTTTCTCACCTTGTGCTGCCATCTTA
TGATTTTCTAGTATTTTGTGGAAGATTTTGTGATCTTTCATCAGGATATTGGCTGTAATTTTCT
TTTTTTCATTTTCATCTTTTACCACATTTTTTGTATCAGGTTTCTACTGGCTTCATAGAAATGAGTTCAGGAAT
GGTCCCTCCTCCTCGAATTTTCTCTGTAGAATTAGTACAGCTCTTGTGTCTGGGAGAAAGTTGTAT
GCCAATAATTTAAATGCAGTTAATAATTTACTGGACAATTTCTCCAGATAATTGTATATGATTTTGGT
CCACCCTGAGTTGATACATGTATTTTAAATGTATCATGGTATGAAAGAGCAAGAGTATTGGTCACCT
AGTCTTGCCCTATAGATGTGCTAATGATTCAAAGTAGATATTTGGAGCCTAACAGGTGCCGTGACTA
GGCAGTTTGTGTTTTTTTTTTTGTAGACAGAGTCTCGTTATGCTGCCCAGGCTGGAGTGCAGTGGCA
TGATCTCGGCTCACTGCAACATCCGCTCCTGGGTTCAAGCAATTAATGCTCAGCCTCAGCCTCCCCAGTAG
CTGGGACTACAGGCTCAGGCCACCCAGCCTGGCTAATTTTGTATTTTGTAGTAGAGATGGGTTTCACC
ATATTGGCCAGGCTGGTGTGAACCTCCTGGCCTCATGATCCACCCGCTCGGCTCCCAATGTGCTGGG
CTTACAGGCGTGAGCCACCCGAGATTAGGCAATTTTATATTTCCCAATATCCAACTCTTCTGA
CCCGCTTCTCAGCCTGGGTGATCAGGCACAAGGCTGTTGAGATTATGTTGCTCTGAAGATATGGC
TCTCCAGGTTGACAATGTGATAAGGATTCACCTGGTTAGGATTTACACATTCGCCCTTGAATGTCTG
TTGCATCAAGTAGACAGTCCATCCCACTTGGCCATTTGGTCAGAGCTGTAAGGAGACAAAGGAGTGGG
CAGCCGCTGCTGTGAACCTGCTTGGACAAAGACTGCCAAATAGCTATCAGACAGTGTAAACAACAGCTGA
TTTAGGTTTGAAGGGGCGAGTCTCTTGGGCCACTTACTATGCTGCATCATCCTCTTTGGAAAATGCTCT
TCAGGTAACCTGCCTAACAGACTGAGAAAATAAATGCTCACAGAGAAAAAGACCCGGAAAGTCTGACT

FIG. 16A(24)

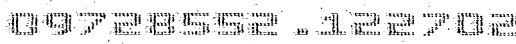
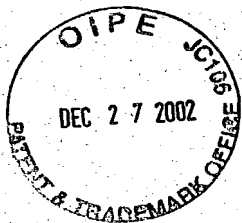


FIG. 16A(25)



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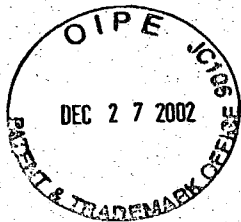
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Y

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TGTGGCTTCATTCTCTGAAGTCAGTGAGACCACAAACCCACTGGGAGGAACAAACAACTCTGGACACGGC
AACTTTAAGAGCTGTAAACATTCACTGCGAAGGTCTGCGGCTTCACCTCTGAAGTCAGCGAGACTATGAA
CCCACTGGAAGGAAGAAACTCCAGACACATCTGAACATCTGAAGGAAGAACTCCAGACACACCATCTT
TAAGAGCTGTAAACACTCACTGCAAGGTCTGCGGCTTCATTCTTGAAGTCAGCAAGACCAAGAACCCAC
TGGAAGGAACAAATTCGGGACACATTTTGGTGACCCAGATGGGACTATCACCAAGTGGTGAGTACCATC
AACCCCTTCACTTGTATTCTGTCTCTATTCTTCTTAGAATTCGGGGCTAAATATTGGGCACCTGTC
AGCCAGTTAAAGCGACTAGCATGGCTGCCAGACTTAAGAGACTAAAGACACACGGGTGTGAGACTTTCTG
GGAAGGGCTCTCTAATAACCCCAACTCTTTGGAGTTGGAGCGTTGGTTGCCTGGAACCAAGCTTCC
ACATTTCTCTGTACTTCTGGGCTGAGACGAGGTCAACAGAGAGGAAGCCATTGAGCTCTGGGTCCCCG
ACAGCAAGTTGGTTGACCCCTGTGGCCATGAACAGAACTCTCGAAGTCATGTTGCCCAAGCGAGACTCAC
CCATCTATCTATCTATCTGACTCTTGTCTTCTGGTCTTAATGCTGGAAGACAAACACTTCCCTCTTG
TCTCTGTTCTCCAAGGCTAGTCCCACTTCTAAAACCACTCCCTGTCTCTGGTCTTTTCTAGTTCTC
CTATAAGAATGATTTCTAGTATAAATCTCCAGGACTCTATTCTCTTTTAGGCACCCGGGCTCACCAAT
CAGAAAGCCATAATTTTGGCCAAAGCCCATCTTAGGGGGACTATCTGGAATTTTAGGATCCCTCCT
CAGACAAGCAGGCCCTAACAAAGCTATTCTGAAGCTAGGATATGGGAGCCCTCAGAAATGATATCCTT
CCTATTCAAGTGAGGACAAAGGCATCACTCTTCCAAATCTGGAATCCCTTCCCTCAGGGTATG
GCCCTCCACTTCACTTTTGGGGCATAACGTCTTTATAGGACACGGGTAAAGTCCCAATGCTAACAGGAG
AATGTTTAGGACTCTAACAGGTTTTCAGAAATGTGTCGGTAAGGGCCACTAAATCCGATTTTCTCAGT
CCTCTTTGTTGTTAGGAGGACAGGTAAGGGTGCAGGTTTTCAAAATGTGTTGTAAGGGCCACTAAA
TCTGACATTCCTTGGTCTCTGTTGTTAGGAGGAAACTAGTGTCTCTGCTGCTGCATCAGTGAGC
GCAACTATTCCAATCAACAGGTCAGGGACCATTTGTGGGTTCTTGGGCAAGAGGTGTTCTGCTGCTG
CATTGGTGGGCTCACTATTCCAATCAGCAGGTCAGTGACCTTTGCGGGTCTTGGGTGCGGGGTG
GGGGAAACAAACAGACCAAAACTGGGGCAGTTTGTCTTTCAGATGGGAAACACTCAGGCACCAACAG
GCTCACCCCTTGAATGTATCCTAAGCCATTGGGACTAATTTGACCCGCAACCCCTGAAAAGAGTGGCT
CATTTTATTCTGCACTATGGCCTGGTCCCAATATTCTCTCTGTATGGGGAATAATGGCCACCTGAAGG
AAGTATAAATTACAATACTATCCTGCAGCTTGACCTTTTCTGTAAGAGGAAGCAAAATGGAGTGAAAT
ACCTTATGTCCAAACTTTCTTTTCATTAAAGGAAAATCCACAACTATGCAAAACTTACAAATTCACATCC
CACAAGAGGACCTCTCAGCTTACCCCCATATCATAGCTTCCCTATAGCTCCCTTCTCTATTATGATAA
GCCTCCTTAATCTCCCCACCCAGAGGAAACAAAGCAAGAAATCTCCAAGGAGCCACAAACCCCTG

Z

FIG. 16A(26)



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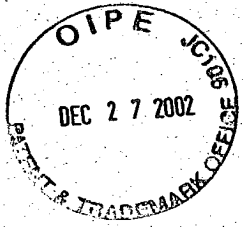
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Z

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ATACAGATGTCTACAGGTCTAGGGCAACCTTCAATCTCACTTGGAGAGATGTATGTTAG
ATCAAAACCTGGCCTTAAATTTAAAGAATGTGGCTTTAGCCACAGCCCGAGAGTTTGGAGATACCTGGT
ATCTTAGTCAAGTAAATGATAGATGACAGCTGGGGAAGGACAAAGTCTCTCCGGTCAGCAAGCCA
TCCCTAGTGTGGATCCCCACTGGGACCTAGACTCAGATCATTTGGGACTGGAGTCGCAAAACATCTGTTGA
CCTGTGTTCTAGAAAGACTAAGGAGAATTAGGAAAGAGCCTATGAATTTCAATGATGTCCACCATAA
CTCAGGAAAAGGAAGAGTCTTGCCTTCCCTTGAGTGGCTACAGGGAGGCCTTAAGGAAAATATAACT
CCCCTGTACCCCAACTCACTTCAAGGGTTAATTGATTTCTAAAGATATGTTTATTACTCAATCAGCTGC
AGATATCAGGAGAAAGCTCCAAAAGCAAGCCCTTGGCCCTGAACAAAATCTGGAGGCATTTATAAACCT
GGCAACCTTGGTGTCTATAATAGGGGCCAAGAGGAGCAGGCCAAAATGGAAAAGCGAGATAAGAGAAA
GGCCACAGCCTTAGTCAATGGCCCTCAGACAAAACAAACCTTGGTGTTCAGAGAGGACAGAAAATGGAGC
AGGCCAATCACCCAGTAGGGCTTGTTCAGTGTGGTTTGCAGGACAGTTTAAAAAAGATTGTCTAT
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AGGACAAAGATTATCTGGGCCAAGACCCCAAGCAGATGATCCAAACACAGGACTGAGGGTGCTCAGG
GTTAGGCCAGCTCATGTCAATCACCTCACTGAGCCCTGGGTACATTTAACCATTTGAGGCCAGGAAAT
TGACTTCTACTGGACACTGGTGGCGCTTCTCAGTGTAACTCCTGCTGGACAGCTGCTCAAG
GTCTGTTACCATCCGAGGAATCCTGGGACAGCCTATATCCAGGTATTTCTCCACCTCCTCAGTTGTAA
CTGGGAGACTTGTCTACAGATAGTAAGTATGCTTACCTAATCCTACATGCCCCATGCTGCGATATGGAA
GAAAGGGAATTCCTAACTTCTGGGTGAACCCCTTAAATATCACAAGGAACTATGGAGTTATTGCAC
ACAGTGCAAAAACCCAGGAGGTGGCGTCTTACATTTGCCAAGCCATCAAAAGGGGAAGGAGAGGGGA
GAACTGCAGCATAGTGGCTGGCAGAGGCGAGGAAAGACAAAGCAGAAAAGGAAAGAGAGAGCAGAA
AGTGAGAGAGAAAGAGAGATAGGAAGTGATAGCAAGAGGGAGTCCGAAAGAAAAGAGAGAGAGAG
AGAGGGGAAAGACAGAGAGAGACAGAA
GAGACAAAGAGAGGTCAAGAGAGGGGAAAGAGAAAGTAGTAAAGAAAACAGTGTAACCTATTCTCTT
AAAAGCCAGGTTAAATTTAAACCTATAATTGATAATTGAAGCCCTTTCTGTAAACCTATAATACTCC
AATACCACCTTGTGTGAGTGTAAACCAAGGGTATAGCCCAAAAGCAGTGAAGGCTGACAAACCCGTAG
CCTTCTTATCAAAAATCCTTAACACAGCAGGTTTCTTAACAGGGAATCTAAATCTTAAGGTGGACCAG
ACATAGGAGGAACCTGCCTTCAGGACAGGATGATAGATGTTCTCCAGGTGATTAAAGGAAAAGACAC
AATGGGTATTCAAGTAAAGGAACTCTTATAGAAGCAGAGTTAGGAAAATTTGCCTAATAAGTGG
TCTGCTCAACGTTGAAGCTGTTGCTGTTGCACTCAGCTAAACCTTAAAGTACTTACAGAATCAGGA
AGGAGCCATCTATACCAATTTCTAAGTTAATATGGACTGAACGAGGTTTATTATAGCAAGAAAATTA

A' A'

FIG. 16A(27)



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A'

AAATCTCAAACTTACAAGGTTTTTCAACTAAAGTAAAGTTTGCTAAAAAGTTAACAGCGTAAACATGTATTA
TCCTACTACCTCACACTCTCTCAAAGGATTTCTCAGACAGTTTGCAAAAAAGAACGAAATCTGTCCCTTA
CTCTACAATCCCAATAGACTCTTTGGCAGCAGTGAATCTCCAAAACCGTGAGGCCCTAGACTCTCTTA
CTGCTGAGAAAGGAAGATTCTGCACCTTTTAGGGTAGAGTGTGTTTTTATATACTAACAGTCAGGGAT
AATATGAGATACCAACCCAGTGTTTACAGGAAAAGGCTTCTGAATCAGACAAATGCCTTTCAAACTCTTA
TACCAACCTCTGGAGTTGGCGACATGGCTTCTCCCTTTCTAGGCTCTGTGACAGCCATCTTGCTAAT
AGTCGCATTTGGGCCCTGTATTTTAACTCTTGGTCAAAATTTGTTTCTCTAGGATCGAGGCCATCAA
GCTACAGATGATCTTACAAATGTAAACCCCAATGAGCTCAACTAACTTCTGCTGAGGACCCCTTGGGA
CCGACCCGCTGGCCCTTTCAATGGCCTAAAGAGCTCCCTCTGAGGACACTACCCTGACGGGCCCT
TCTTCAACCCCTATCCAGCAGGAAGTAGCTACAGCGGTCTATCGCCAATCCCAACAGCAGCTGGGGTGT
CTGTTTGGAGGGGGATTGAGAGGTGAAGCCAGCTGGGCTTCTGGGTCAAGTGGGACTTGGAGAACTT
TTGTGCTAGCTAAAGGATTGTAATGCAACCAATCAGCACTCTGTGTCTAGCTAAAGGATTGTAATGC
ACCAATCAGCACTCTGTAAATGGACCAATCAGCAGGATGTGGGGGGTCAATAAAGGGAGTAAAAAC
TGGCCACCCGAGCCAGCTGGCAACCCACTCGGGTCCCTTCCACACTGTGGAAGCTTTGTTCTTTTG
CTCTTACAATAAATCTTGTGCTGCTCATTTCTTGTGTCACACTACCTTTATGAGCTGTAACACTCA
CTGCGAGGGTCTGTGGCTTCATTCCTGAAGTCAACAGACCAACCACTGGAAGGAACAAAGAACTC
CCGATGTGCTGCCCTTAAGAGCTGTAACTCACTGCGAAGCTCTGCAGCTTCACTCCTGAAGTCAGTG
AGACCACAAACCCACAGAGGAAGAACTCTGGACACACTGAAATATCTGAAGGAACAACTCCAGAC
ACACCATCTTTCAGAGCTGTAACTCACCGCAAGGCTCTGTGGCTTCATTTCTGAAGTCAGCAAGACC
AAGAACCCACCGGAAGGAACAAATTCAGACACAGTAGGAATCTGTATTTTGTATCTGTGGCTTCCAG
GGTTACTCCAGTCATTGAAGTCTCCATTGCAGCCTTAAGGAACAGAGAATGGTTGGAGGAGCACATG
TGGGAATTGTTATGGACCAGGCTTGAGATGCACATAGGGCATTTCTGATCAAACTAGCTGGAAGCAGG
GCCAGGAATATAATCTAAGGAAGACAGTTTGTAGACAGTAGTAGTCTTTCATCTGAGACATGTAG
ATTATCAAGCAATTAATTAGAAAAAATATAGCCAGGTGGCTCATGCCCTGTAATCCCAGCACTTT
GGGAGGCCAAGGGGTGGATCACAAGGTCAAGCGTTGAGACCAAGCTGGCCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAATTAGCCTGGTGGTGGCAGCATCTGTAAATCCAGTACTCAGGAGG
CTGAGGCAGGGGAATCTCTTGAACCTTGGAGGCGAGAGGTTGCAGTGAGCCAGATCACACCACAGCACT
CCATCTCGGTGACAGAGCGAGACTCTGTCTCAAAAAAAGGAAAGGAAAGGAAATATAATC
AAGAATATTGACAGGTAACATTTATTCAACACTTACTATGCACCAAGCAATACACTAAGTGTTTTACAT
GGATTAACTCATTTAATCTTAACAATAGCCCTATGAAGTCAGTGTGTTATTTATCTCCACTTTATAGAT
AAGGAACTGAAGTACAGAAAGGTCAAGTAGAGAAATGGCCATGCTTGCATTTCTCAGTTTGTGAAGCAA

B'

FIG. 16A(28)

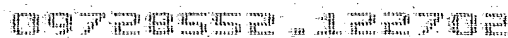
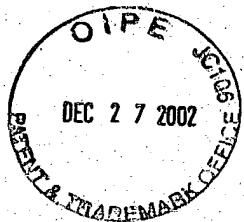


FIG. 16A(29)



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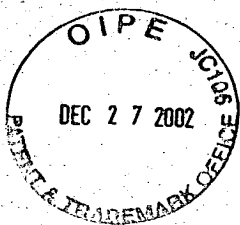
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C'

GCTGAGCTGGGATTCCCAAGGCTTAGGTTCTTTCTGTGAATGACCTTCACCAAGACACCTGAGGTCTGT
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GAAAAGATTACATGACTGCAGTTATTTGAATGCCTCATGGAAGACGCTTATAAAATATTATAATTAA
TGTTATCATTAAGTAATGCTTCAATGCAGATCTTCCAAGTATAAATATCAGCTGAGTAAGAAGTCAATC
TTCCCTGAAGCAAAATTGAAATTTGTAATCGGATTTCTGGAGCTTATTTGTAATACATGATCCAG
AGTGCCATAACACACACAATTGTCTTTTTTCCCTACATGGGCTATTTACAACAAAATTGGACTTATA
ATGTTTATTTCCAGGGATGACTAGAACTTTAATAACAAACCTTGGGCCAGGCATAGTGGCTCATGCCTA
TAATCACAGCACTTCGGGAGGCTGAGGCTGGTAGATTACTTGAGGCCAGGAGTTTGAGAACAGCCCTGGC
CAACATGGCAAAACCCCTGTCTCTACTAAAAATATAAAAATTAGCCGGGTGTTGGCGCATGCCAGTAA
TCCAGTTACTAAGTAGGCTGAGGTACGACAATCGCTGGAACCTGGAGCGGAGGTTGCAGTGAGCTG
AGATTGCACACTGCACCTCCAGCCTGGGTGACAGAGAAAGACTCTGTCTCAAAAAAAAATAAAAT
AATAATAATAAACCCTGATGAAAGGTTTCTAAAATGTTTTCATCTAATGGTTTCTTGACAAATTAA
ATTTCTATATAAATGTCAGTTTCAAAAAAACTGAGAACGACCACTGCATATCGACTGCTTAAAGA
AAATACGTATATTTACAAACATATACAGTACTGTCTTTTGTCTGTTAGTTAGAGTTAGATAAAC
TGCAGTATGTTGTAGTGGACAGATCATAGAACTAGGAGTCAGGATGTCTGGATTCTAGGAAGCAATGA
ATAGTTGCACGGTGCAGACCAGCATCATGAGTATCCTCAGGAGCTTGTAGAAGTGCAGATCCTTTA
ACTCATTTGAATCAGAAATCCCTAGGTGTGGGCCCTGAAATCTGTATTTTAGCAGGCTCTCTGGGATGT
GATGTCCTTAGAGTTTGACAAACCACTGGGTAGCTGATCCTGACTTAGACTTATCAGGCATGTGATCTT
GAACAAGTCACATAATCTCACTGAGTTCAGTTTCTTATGCTTAAATAGGCCCAATAATATCTATTTC
ACATGGACTGCTTTGAGGATTAGGCAAGAGATCTGTAACAGACACTGTAGAAGTGTCTCTGGTCTAC
AGTGACCTTCCATAAATGGTAGTTGCCCTTGATCTCTGCTGCCACATAAATAGCTGGTTAACTATGAG
CAAGTAATTTAGTTCTCTCAGTTTAGTTTCTTCACTGTAAAGAGGAAATAAATGTTTACTACTCAA
TTTCTGAAGTGGCTATAAAAAATCAGTTTAAATTTATGGCATTTGAAGCTCTTTGTACACTGTATAAGGAC
TGTAATCTAAGGGATTAAATGAGACCAAGCTTATGATTTTAAGCATGGAGTAAATAGTAACACTGACTC
TGTTCTATGAACCCACATGGAAACTCTAAAGAATATGCACATTTGAACACACAGGATCATCTGGGGAAG
TGATCTGCTCACCCAAACCAAGTTTATGAAACATCAATCTCCAGTGGGCTGCTGGAGCTAGCTGTACCCAGC
TCATGAGGGCCAATTGTTTCAATTTTAGGAATTTTGTGCTGCTTAAAAATAGTCATTTATTTAAATTT
AAATTAATGAACAATAATATTAGATAAAATAAGTTAAATAAAAAAAGGAAGTAAATATCCCCAAA
CTCTTCCCCACCTAATTTTACTATCTGTGCTTGGGATTTTACATTTGATTTTATCCATATGGTG
ACAATACTATTTCATATATAAATGGTGTGCTTCTTTCATAACTCTACATAGCCCTGATGTGAGGCTAGTA

D'

FIG. 16A(30)

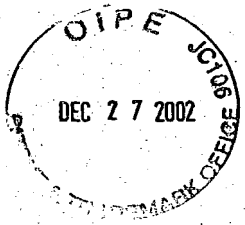


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GCCATTATTTTAAAGAGGACTCACATTACCCAAAGTGCAGGCTGATATATACCTTCAGAAATATCAAT
TTATTAAATTTACAGTGAAGAAAGCCACCCAGGGCATTTCCCGGGGAGGCAAAAGAGCTAGTTGCA
CATTTGAATGTTTATGACATTAGGGTAAGGTGACACAGAAATATCCATTTCCACAACCTGAGATACCTG
CTGCCCTTAAGGAAGGACAGGCAAGTCCCTTGGCAGGACCTTAGATTGTCACTGTCCATCTTGTCTCTAG
GACTCTCCTTTCCAGGCATGACGATGGCCAACTCTGTCCCTCCTACCTACTGATGGGATATCTTTTCT
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AAAAGTGAGTACGGACTGGCACATTATCAGAGAAAGAATCATTTAGCTCGGTGGGTCTTAACCCAGGAG
TGAATTTGACTCCAGGGAACAGTTGGCAATGTCTGGAGACGTTTTTTATTTGTTATAGCTGGGGATGAG
TGGTGGGTTGCTACTGGCATCTAGTGGTGGAGACCAGAGATGCTGTTAAACATCCCGCAAGCACAG
GACAGTCCCCGACACAAGAATATCTGGCCCCCAATATCAATAGTGCCAAAGTTGAGAAACCTCATTT
CTAGCTTCTTTTCCCTTCTACGTTCTAATCAACTGTTGTTCTTTTCAGCATTAGGATTCATCCAGCAGT
CTCTTTCCCCAGCAATTTGTTGAAATTTTTTTAAAAATGGACTCATTTTAGTGTCAAGAAAAAATA
CATTCACAGGAAGGATGGGTCAATTTTGTTTAATGATGTTTTTGCCTTTTCACATAGCAAAAGCTTAATAA
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E'

FIG. 16A(31)



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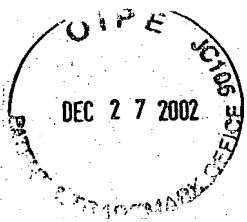
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E'

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F'

FIG. 16A(32)



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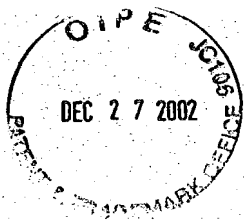
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F'

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G'

FIG. 16A(33)

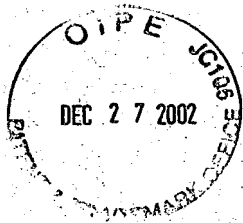


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G' H'
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FIG. 16A(34)



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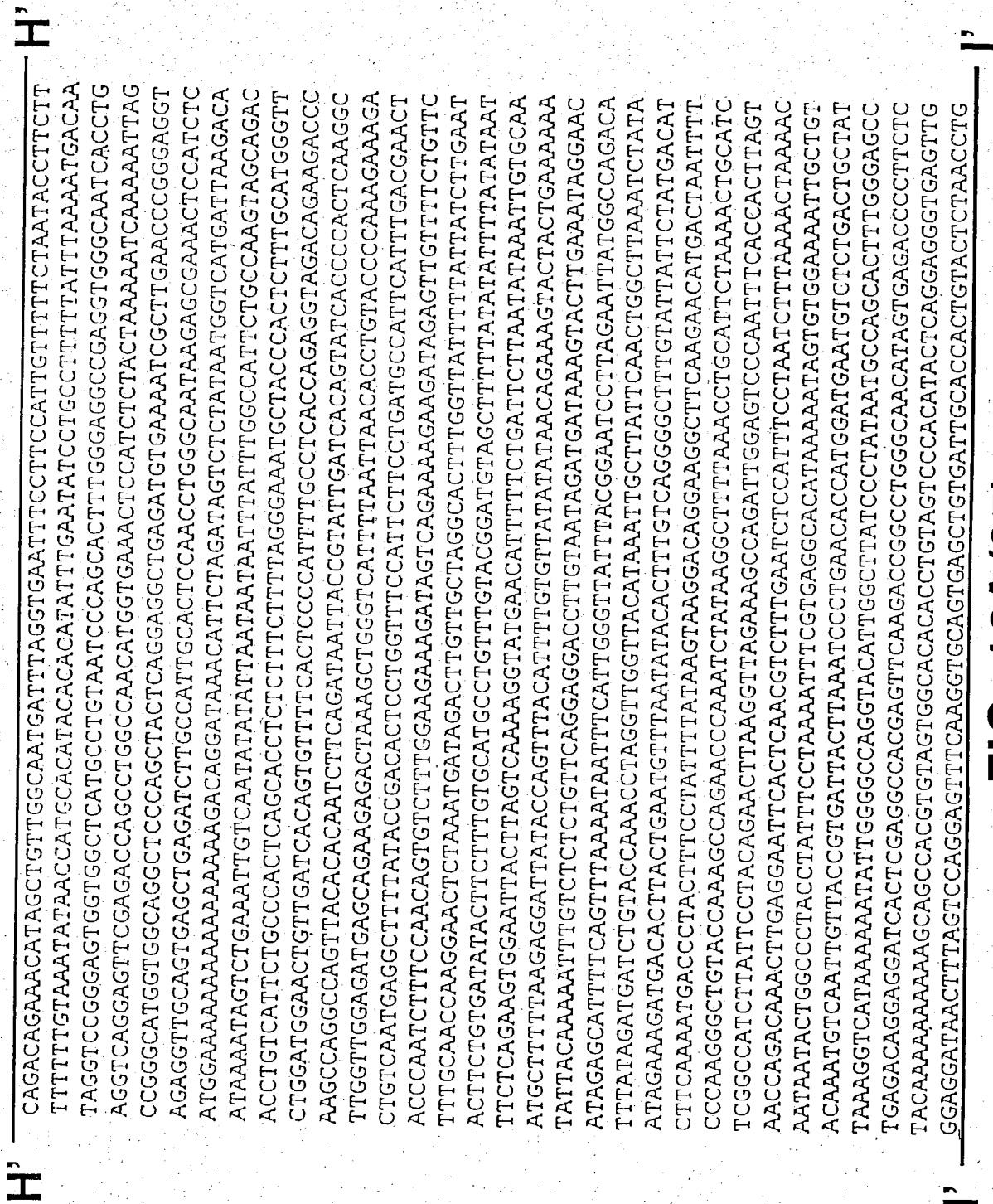
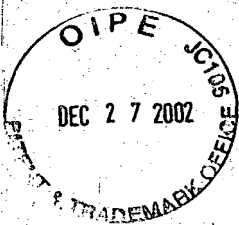


FIG. 16A(35)

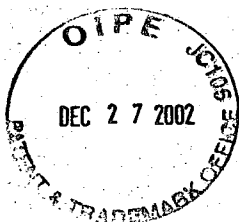


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I' J'
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FIG. 16A(36)



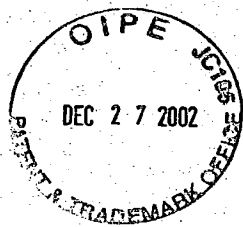
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J'

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FIG. 16A(37)



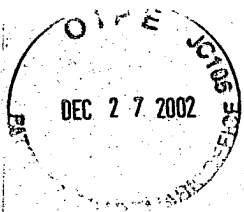
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BAC-F2 sequence contigs

Contig 1 (5596 bp)

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B

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CATTACATCTAAGCATAAGCAAAATCTCCTCTTGGATCATTAAGTTATAGAAGAAAAAGAAAGCCGTGCAC
TTTGAATTTAAATAAAGCTTGGTAACTTGTAAAGTCAAAACACGTAATAATTTTACAATTCAGGAATATCG
ATAGCAGTTGAGTTTAAATAGACTTCTCACATTCCAAATTTAAAGCTTCTCTCTGTGCTAATAGAGAT
ACAATAGCAGTAGCGTTTAAAGAGAATGAATCAACAATTTAAACTATAATGTGTTTTTTATTCATCT
CCCTTATTCACATATATTGTTTTTTTGAAGAGGAGTTCTGCTCTGTGCGCCAGGAGGAGTGCTGT
GGCAGGATCTCAGCTCACCGCAACCTCTGCCCTCCGGTTCAAGCGATTCTCTGCTCAGCCCTCCTGA
GTAGCTGCGATTACAGGCGTGGCCAGCAACCCCGGCTAATTTTTGTATTTTGTAGTAGACACAGGTTT
CACCACGTTGGCCAGGTTGGTCTCGAACCCCTGATCTCAAGTGATCAGCCCGCTCGGCCCTCCCAAAGT
GCTGGGATTACAGGCGTGAGCCATCACTTCTGGCCCTTATTGCGATACAATTTAAAAATCATCACAGAA
GGTTTGAAGAAGGAAGGGCAGAAAATTACCTACTTTTCTCTCCCGAGCGATCTCCTTCAAAATCTGT
GCCCTTTCTCAGGCCCCAGGCTCAATTTACTGAGCAGTACACCTCACAGAGGGAGGCTGCGGCAATC
CACTCTTGGTCAAGGAAAGCCATTGACCTCCCACTTCCCTCTCCACCTTGTCTCAACTCTTGAC
TTTGGGCTTTGTTCTGTTCAAGTCCTAGGAAGTGGTTTTCTTTATCAGGTTAAGTGATTAGTTCTCTT
TCCCTCTAGTTGCTCTCACTCCCTGACTCGGGGATCCACTAGTTCTAGAGCGGGCCGCCCGGTGGA
CTCACAG

C

Contig 2 (18457 bp)

GAGGGGGGAACCCCTTTCCAAAAAAGAAACAAAGACAGGATAAACATTTAGATAGTCTCTATA
ATGGTCATGATTAAGACAAATAAATAGTCTGAAATGTCAATATATATAATAAATTTATTTGGCCA
TTCTGCCAAGTAGCAGACACCTGTCAATCTGCCCACTCAGCACCTCTCTTTCTTTAGGGAAATGCTAC
CCACTCTTTGCATGGGTTCTGGATGGAACCTGTTGATCACAGTGTTTTCACTCCCCCATTTTGCCTCACCA

FIG. 16B(3)

C



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C
GAGGTAGACAGAACCCAGCCAGGCCAGTTACACACAATCTTCAGATAATTACCGTATTGATCACAG
TATCACCCCACTCAAGGCTTGGTTGGAGATGAGCAGAAAGAGACTAAAGCTGGGTCAATTTAAATTAACAC
CTGTACCCCAAGAAAGACTGTCAATGAGGCTTTTATACCGACACTCCTGGTTTCCATTTCTTCTGATG
CCATTCAATTTGACGAACACTACCCCAATCTTTCCAAACAGTGTCTTTGGAAAGAAAGATAGTCAGAAAGAAAGA
TAGAGTTGTTTCTGTTCTTTGCAACCAAGGAACCTCTAAATGATAGACTTGTGCTAGGCACCTTTGGTT
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TTATATATTTTATATAATTTCTCAGAACTGGAATTACTTAGTCAAAGGTATGAACATTTTCTGATTC
TTAATATAAATTTGTGCAAAATGCTTTTAAAGAGGATATACCAGTTTACATTTTGTGTTATATAAACAG
AAAGTACTACTGAAAAAATATTACAAAAATTTGTCTCTGTTCAGGAGGACCTTGTAAATAGATGATAA
AGTACTTGAATAGGAACATAGAGCATTTTCAGTTTAAATAATTTTCAATTTGGTTATTTACGGAATCCT
TAGAATTTATGCCAGACATTTATAGATGATCTGTACCAACCTAGTTGGTTACATAAAATTTGCTTATTC
AACTGGCTTAAATCTATAATAAGAAAGATGACACTTACTGAATGTTTAAATATACACTTTGTCAAGGGCTT
TGTATTTATGACATCTTCAAAATGACCTACTTTCTCTATTTTATAAGTAAGGACAGGAAGGCTTC
AAGAACATGACTAATTTTCCAAAGGCTGTACCAAGCCAGAACCCAAATCTATAAGGCTTTTAAACCT
GCATTTCTAAACTGCATCTCGGCCATCTTATCTACAGAACTTAAGTTAGAAAGCCAGATTGGAGTC
CCAATTTCAACCACTTAGTAACCCAGACAACTTGAGGAATTCACCTCAACGCTCTTGAATCTTCATTTCT
AATCTTTAAACTAAACAATAATCTTGCTCTACCTATGTCTTAAGATTTCGTGAGGCACATAGAGAT
AGTGTGAAGAGTGCTGTACAGATGTCAAGTGTTAGCGTGATTACTTAGATCCCTGAACACCATGGATG
AATGTCTCTGACTGCTATTAGAGGTCATAAAGAATATTGGGCCAGGTACATTTGGCTTATTCCTATAAT
GCCAGCACTTTGGGAGCCTGAGACAGGAGGATCACTCGAGGCCACGAGTTCAGACCCGCCCTGGGCAAC
ATAGTGAGACCCCTTCTCTACAAAAAAGCAAGCAGCCAGCTGTAGTGGCACACACCTGTAGTCCCACAT
ACTCAGGAGGGTGAGTTGGGAGGATAACTTTAGTCCAGGAGTTTCAAGGTGCAGTGAGCTGTGATTGCA
CCACTGTACTCTAACCTGGACAGCAGAGTGAGACCCTGTCTCTAAAAAAGAAAGAAAAAATAATAAT
AATAAGAAATAATGGGGCTTGGGATACCCACTCCTCTCTTCTGCTCTGAGTTGTGAAGCAGTTGAGT
TACATATGCATGTCCAATGGATGAGGTTGAAAAATATCAACTGGATTGGAATGTGGCTTACTTGGTGGC
CACAATGAGCTTCGTAAACACTTCTGACAGGTTGAGAGACAAACTTCTCACCCAGTCACTGGCAGAG
CTGGACACTCTGTGTCTCTCCACAGAACAACTCTTACTGCTGAGGTGGATGAAAGTCAACCCGA
GAACAGGCTACTCCAAAAAGCAGAGCACCAAGGCCACAGCTGGTCAGGTTCCCTTCTTAAGTAACA
ATCAGGTAATTCATTCGGGACAAAGCCAGAGAGGTGTTGGAGAAAGAGAGGGCAGTTTCTCCCAAG
TTTTTCTGGAATCTTTATGGGAATATGAGGTTTAGGGGAATAAGACTTCCCTTTAACAGTGAAGAAT
CCCCAGCTCTATTGGTAATAGGAAATCGCTTACAAGGATCATGGGGAGTATTTCTCAGCTCGTTCTGC

D

FIG. 16B(4)



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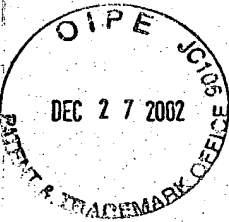
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CACACCCACTCCTTGACGCCCTACCATGTGGTCATAAGACTCCCTTTAAAGTGTTCCTTTAAAAAACAA
AATGTGTTTTTGTCTATATAAATACAGCTCAATGTCAGAACCCCTTGTCTTGTGTTGCTCTCTGATGTAAC
CCTTTCACAAATGTTTGGCAGCTTATCTCTCTATTTCCCTGTAGGGTCCCATCCAGGCCAAAGTGAGT
GCCAGCCTCATTTGGCAGCAGATGCCCTGTGGAAGGCGAGGAGACGAGAGCTAATTGTAACCTTG
TGATTAGCTGTCAATGATGCCCTGGTCCCTGTCAATAGCGCTCAATAAGCCAGAGCCAAAGCGTTCCGT
TCTGCATACTGATTGCTGAGTCAGATTTCTCAGTGCAGAGGGCTTTCTAGGCAGTCAATTTTAGAATA
TTAGTCTTGGTTCTTAAGTGTTAAATCCCTAGCTGGTCTTTAATCTGAGCCTGGAGAAATTTAGTTAT
GGCTGACATCTCTGTGATATTTTGGCCCTCAATATATATGTCTTTCTCCATCTCTTAGATCCCTGA
ATCATAGAGATATATATGTTATATAATCAACTGTCTCCAGTCTCTAAGAGTGATAAGTACACATTGTGT
CAGGTTGAGGGACAGGAGAACTTTCAAAAGCCTTTCTTGCCCCCTTTTCTCTCTCACTGCCCTCCCACT
AAGTCCAGCCACTTATTATTACAGCTGACACTATCATCATGACCATGAGGTCTTTTGGGGCTACCCCTGGT
TCGGATCCTTCTGGAGGTTTGTGCTTAACTCTGTCTTCACTCTATGAGTCTTTTCAATAAGTTT
CTATTTGGCTAAAGTTGGCCAGAATCTCCTTGTAACCAAGAACAAATAAATACCAGCTTGCAATGT
TCTATGTTGCTTCCACCAACTTATGCAGCACTTCTATCTAATCCACCTACTAGTCTTTTCTTTT
ATTTTTTTGAGACGGAGTCTCGCTCTGTTGCTCAGGATGGAGTGCAATGGTGCAATCTCGGCTCACTG
CAACCTCTGCCTCCCGGGTTCAAGCAATTCCTCCGGCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGC
ATGCCACACGTCGGCTAATTTTGTATTTTAGGAGAGAGAGGGTTTACCACATGTTGCCAGGCTGGT
CACGAACCTCCTGAGCTCAGGCAATCCGCCCTCCTCGGCTCCCAAGTCTGGGATTACAGGAGTGAGC
CACCTCACCTGGCCCCGACCTACTAGTCTTTAGTGTGTTGCTTCTTCTTATTTGGTAAATGTCTGTTTAT
ATGCATGCTTGTCTTCTCAATATAAATGTGGTCTTCTCAAGGTATTGGCCCATGTTCTATCCATCTG
TAGATATCACAGCACCTAGCAGTGCTTTTACAGAGGAAGTACACAACTGGCATTTATTGATTCAATTGCT
CCATTTTCTCTTATCCCCAGCATTTCTCAATAATTTCAACATCTCCATTTGGAGTACCCGGAGAA
AGCAGGTAGCTTTACTTGCAGCTATGTTTCTATCCCCATAGTAATAAAGAGGACCCAGAGAAACATG
TTTAAATGCTGCTGTTATCAGGACCTCAGCCTTCTGATGCTCCGTGGCTTGGGGTTATTGCTTGAT
CATCTCCTCCCCAACCTACACTGTGTACCTATGCTAGTCTCTTATGAGGACTAAGCCCATAGTAAAA
GGGCTAGATAAATAGAAAATCATTTTATGTAATTATAAGAACTGAGAACTACTGAGTATTCTGGTGTGTTGT
TTAGGATAAGCACATCTTTATTTGTATGAGAAAAAGAAAAAGAGAGTGAAAAATATATTAAACGTGCATA
TTGTTACAGAAACCTTGGATTGCAAGTGACAGAACTCAATTTCAACCAACGTAAGTCAAAAGGAAAAATA
TATTGGCTCATGTAACTTCTCACAGAGAGGCGAGGATGGAAGGGGCTTTGGGAACAAAGAGAAATTTGTTT
TCAAATTTAGGAATACTAGGATTAGTCCAGGATGGGTACCTTCTCTGCTCCCTGAGGTGGTGGTAGCGA
TGGTAGAGTCTTATGGGAGGAAAGAGTGATGTTAGGATGAAGGTAGGGCTAAGCAAAACAAAGGGCAAGG

E

FIG. 16B(5)

E



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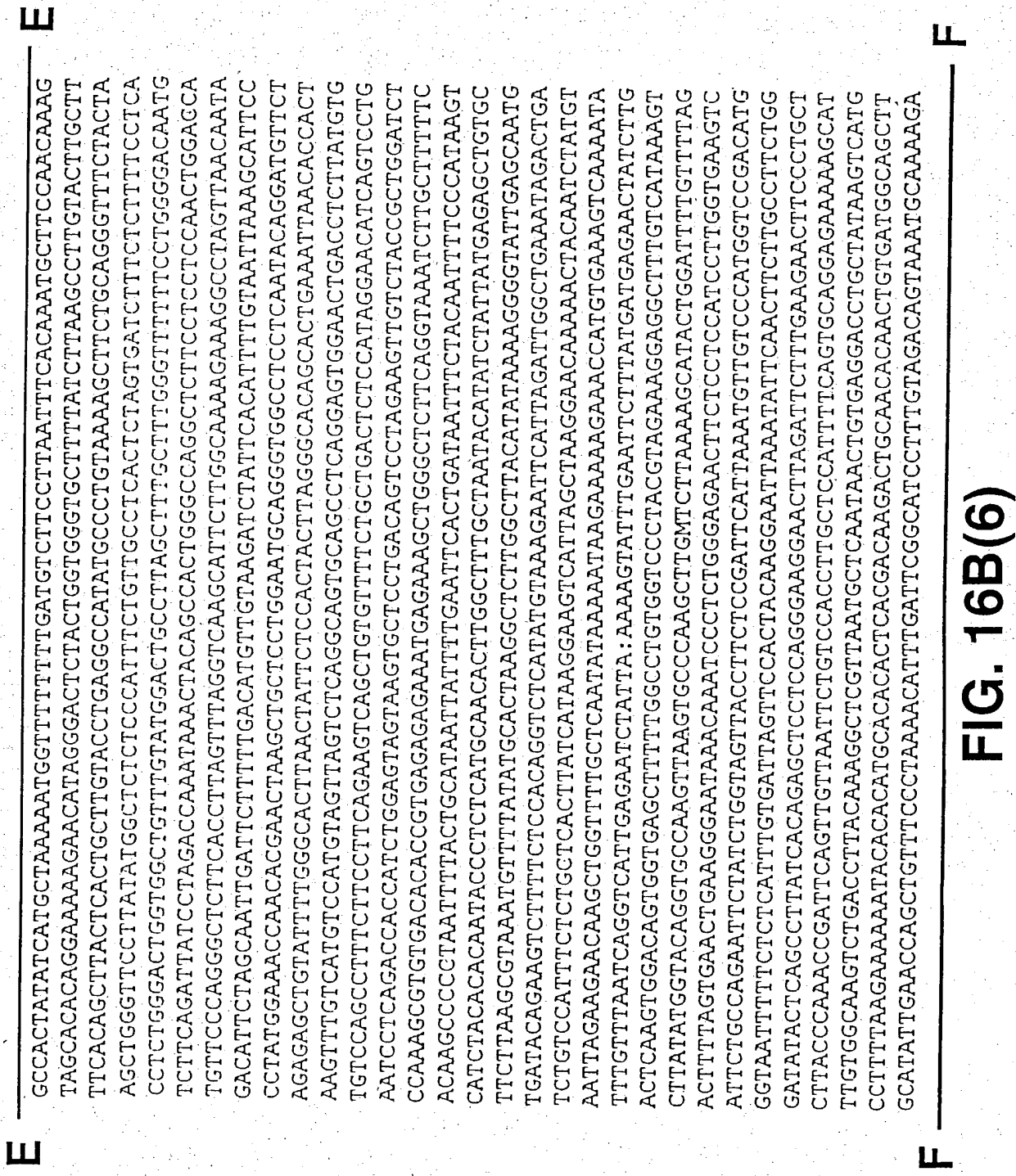


FIG. 16B(6)

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L

CTTAGGFTGGAAAAGTGCATTAGGTTTTGATTAAACGATTGGATGAGGGCCAGTTAAATTTTAAATCTG
AATGAGCTTGCTGACTCAGGAGCCTTAGCAGCATAAATGGACAGACAGTCTCAAAGCTTTTCATTTAAAAG
GGTTCTGGTAACTGATGCTARAGAAATGAGTTGAAATACAAATCACTGAAACCACCTCAGCTTTTCATCT
AAAACAGAAATATGTAATCTCAAAGAACTCAACTGGTCTCTTGAAATATTCAAGGTAAAATTAATGTAAA
GAAGCTAGAGCTTAAATATTTTGAGGAAAGGAAGCCTCCTGTAGCTTTGTGACTATATCACTTTATCCT
TTTGAATGCCGTATTAAATTATGTTAAATTGCAATTTAAGTATAGCTGGAGTCACCGATCTGCTGAAAAC
AAACTCTASAAATGGTTTGTGGGAGGTGCTCAGGATGTATCAGAGACTGATTTGATTTGCATTTTATTTT
TAACTTTAGTTCCTCTCTGAACCTCGCCTTCTCATGTTGTTTTTTWTGTTGTTGTTGCTTAATACAGT
CATGTGCCACCTAATGACAGGGATATGTTCTGAGAAATGCATTATTAGGTGATTTTGCCATTGTGCAAA
CATCACAGTGTACTTACACAAAACCTAGATGGCATAGCCTACTACACACGCTCTGCTATATGGTAGAGCCT
ATTGCTTCCAGACTACAAAACCTGTATAGCATGTTACTGTAACCTACTGTAGGCAGTTGTAACACTGG
TATTTGTGTATCTAAACCTATCTAAACATAGAAAAGGTACAATAAAAATACAGTATTATAATCTTATGG
GACCACTGCTATATATGAGTCCATCATTTGACTGAAACATTAATGTTGGTGCATGACTATAATAGGATCAA
ACTATGCCCTTTCAGAAATCCCCCTGAAAGCCTCTGAAACTACCCCTGATCTTAGAGGCAGTTTATATA
ATCAGGGCCAAATGATTTCTCAGCCTTTGGTTGTGCCAGAGATGTGCCGCTCTCCTTTTGCAATGACCC
TAGAGGTAAGGTGCTCTTCTCTCTGCTTCTCATGAAAAAATGTAATGTTGTATTTTAGCTTCTT
TTCCAGCTAGTAATATCTTGTTAAATTTACAAGATTGTAGCGGTGCCCTCCAAAAGGGGATAGCAATA
GTTACTTTGAAAAATGGTGAGTTCTTTGCAACCATCTCTGAGTTGAACAGTTCTTGATAATCTGTCTT
CCGAGTTAGGCTGTGAGCCGCTGAAGGCAGCAAGTGATCTTTCACTCTCTCTGATCTCCTCAGCCA
CTCTTCTGCCCCACAATCCAAAAATCAGTTACCAAGCCATTGTAATTCCTTTCTGAAATGTGTAGTA
GACTCCTTTTAGGGTATTTGCCAGTTTCAAAAGACCCCTGCCCTCTTGGAATCTGTCTTGACGCC
ATATATGGTTTTTGTGTTGTTGTTGTTGAGACAGAGTTTCACTCTGTGCCCCAGGCTGGAGTGCAGT
GGTGGATCTCGGCTCACTGCAAGCTCCCCCTCCCGGTTCAAGCCATTCTCCTGCCCTCAGCCTCCCCAA
GTAGCTGGGACTACAGGCGCCTGCCACCATACCCAGTTAAATTTTTTGTATTTTAGTAGAGACGGGCT
TTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCGCTTTGGCCTCCCAAAGT
GCTGGGATTACAGGCGTGAGCCACTGCACCCGGCAGCCATATATGTTCTATATGACTCTTTCTGAGACA
ATAGCTGATTAGAACAGTGATTAGAACTGTGATTTCTGAGACAAATAGCTGATTTCTGAGACAAATAGCTG
ATTAGAACAGTTGCCACGAGCTGGACCAATCATATTAATATCTCTATCTCTCTCTTTTGTCTCTCGAAA
TCTCAAATTGAGATTCAGAAACAGCTATGTAGTCTCTGTTTGTGGCTAGAACTGTAACATATGAACCCA
GAGCTAGAGAGATGCAATATTTCTATCAAGCAGAGAGAGAAGCAGGAAGCCGGTCGGCACAGACGGAA
TGCAGTAGCACACAGAGAGACGACACTCGGAGATGTCTGACACCTTTCTGCTTAGATTCAGTCTAG
TTCAGAGGCCCAGACGCATTCCTGTCTGGAAGCATTTCTGATCTGTTTTGTAAATCAACAATAAATCCC

FIG. 16B(7)

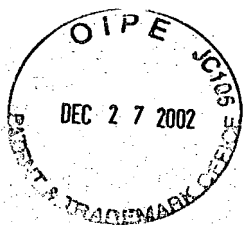
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FIG. 16B(8)

I



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H

AGTTCCTTGGCTTCCAGCCTGCTCCTTGCTTGTGTTTGAACGAATAATATATGACTTTCCTTCTTAACCTG
GCAATGCTGAACCTGTGGCCTCTCTTAACCCCTCAAGTCTCCGATAAAAAGCAAAATATTAGATTTCGCT
GACCAGCGCTACTCCTTACCCCGGCTGATTTACATGAAGAGCTATATATGCGGTGTAACATAGGTTT
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TTGAAGAGTCCCTTCACTACCACATGTCACTCCCTTACCTATAAAATGGAACTTAGGTTGTTATA
AGGATTAATGAGTTAATGTATAATGTGCTTAGCACAGTACCTGCCACTCAATGCTATTATTGTTGT
TGTTGTTATTATTATTGTTAGTAGTAGCAGTAGTTGTTGTATGAAGATGCATGATTTCTCTGGGAAA
GGTAGACATTAAAGGCAGGATCAGTCATGAGTTACCTCAAGCAGATTAAATTTACTAGCCCTTTTCATGCT
ATTTCCCAAAGGGATGTTTATCAAGTTGAGGAAGATGTAGATGTGATTTATGATGGATTGAGGTTAG
TACTGTGTATCCAGGTTGTGTGAGAAAGACAAGAAAGAACTGAGGCAACAGCTGTACTTAGGAAGAAC
TCTGTTTGCAAGGTACATAAAGCTAATTCAGACGAGTTTAAACCATAGGAGATTTGTTTACAAAGGCAC
TAGGTAACGTCAGGGACCGAGGAGCAGGTTCTCACTCTCATCCAGATTCTTTTGAATTTCTGTATATT
TTATTCTCTTTCCACAAACAGACTTTCTATCCACGGTGTGATGATAACCAATAACATTTCTCTCAGTC
TCACCCCTTGTAGCTCTGTGACCAAAATGCAAGCTGCTCTCCAGCTTCAAAATTTAATAAGAAT
CACAGGCGCAACATTTATTGGCTAGGCTGAGTTGCATGTCTAACCTTGGAGAACTCACTTTGAATAG
GGGAATTCAGAACTAGGATTGGTGGCTCCACAAATCTCACAAAATGGAGCAAAARTAGGAACCTCATCAA
ACAGAAATCAATAGATCTCCACTGGCTTTATAGTACGTGTTCTGGGAATCCAGATATTCCAGAGCCTAG
GTGAACCTGAACATTTCCCTTTAGGCAGATGGAATCCAGCTTCTTAGCTAAAATTTTCCATTCTC
TTTGAGGGGAGTTTCCATGGAGAGGCTAGCTTTGTGGAGAGAGTGGGAARAAACAACTCATGCTGTTT
TTCATTGGGGACCATTTCTATTGCTACTTTAGTCCAGTCTGCCACGGATCACACATTTTCCCTTACT
CTTGTGCTTCTGGCTTTTCTTTTCTTTGCTGCTGCTTATATTTCCCTTAAAGCTACTCT
ATTAAGAGGGAGATTAGGCAAGTAGGCTGGTTGATTATGTGCTGGTTTAAACCCATAATCACATACCTC
AAAAAGAAAATGTCAGACACACTATAATAGCTCCAGATACAAAACATGAAGTACGAAGACCTCTTCAGA
AACTGCAGGCTTGCTACTACCCACAGACAAATAGAGCTGATTTCTATTAGAACAGTGAGGAAGAACAA
CAGTAAAGAAATGGCATTTAAGATCAATTGTGGCAATGTCTAATTTTGTCTGGGAAGACCATGGCAGTGA
GGGATGCAAGGGATGACATCAAGTTTTCAGAACAGTGCCTATATGTTTAGGACGAAGAGTTAAATAAT
GAGAGAAAACAAATGCAATACAATTTCAATTGGCTACCTGGTTAGACCTAGCATGAACGTGTGTCTGTGAT
GGTCTATTAAATTTGTGATGGAGACATTTGATATTGCTTTTCCCTATTGTTAGAGAGCTTGATTCAGGT
AGAGAGAAACAAATATTATTACAGTGACAAAGCACTTTCTTATACGATATATTATTTCATCCTCC
CAACTAGTTTGATAGGCAGTAATATTATCCCATTTTCACAGAGGGGGAACCTGGGTTAGGGCCACAGGA

FIG. 16B(9)

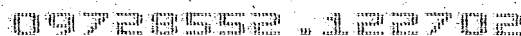


FIG. 16B(10)

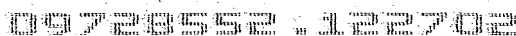
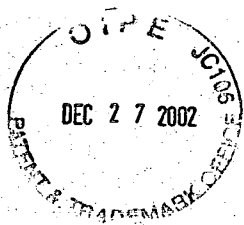


FIG. 16B(11)



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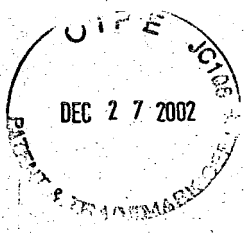
K

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AAATCTAAAGCTTCCAGTTGATTCCAATATGTAGCCAGAATTGAGACCAGAAAGCTGTTAATACCCAA
GTAGTATACTAATATTAATAATGATCATAATAGATTAATAACTAACATTGAATGAACCTTAAATGTGTT
AGCTGATTTAATCTCAATGACTCTGAGGCAGTTACTATTATTATTAATGTACCCCTTCTACAGATGAA
GAATCAAGATACCAAAAACTACATAAATTTGGCAACAAGTAAATGCTAAAGTTGGAATTCAAACACA
GGTAGTTTAGTGTCGGAGCCACACTCTTCACCACACACTGGTGATTTGCCACCTGCAATGTTAAAA
ATCGCAGAGGATAGTGATGACTGCAGACACACTGCCTGCATTTTATCTCCTCTGTTAGGCTGAGC
CATTCAATACCTCAGTGGTCCACACCTTAAAGGCAGGATATAAGGTAATATATGTACCTTCCTGATA
TGAAGTACAGACTCCATCCCTTCTTTTAAAGTAATGTAATGATTAAACAGCTTCTGTTATTCCTTTC
AGAATCTCATAGATAAATTCCTGGCATAAATTAGTATCATAAGTTTCTATTATTGCTCATTA
TCAGTATGTGATGTAAGATCAAGCAGTAAGAGTTCCCCCAACCCCAAGAAATGCTCTTCTGTTGTG
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CGCCACCGGTGGACTAGAT

Contig 3 (11811 bp)

CCTGTTAAAGTTTACCTTGATCTTAAACTTGCCCTAACCGGATTAATTTCTGGCCAAATAGGGAGG
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CACATGTTCAAAGAGCATAATTAACTTTTAAAGAAGCTAGTAAGTACTGAAATAGTTTTTAAAGTTT
TTTCTACAAGAAATAGAGGAAGAAAGAACATGGAATTTCTGAAGGCTACTTAGCAAGCTGCTTATGGC
ATAATCTGGGGTGGGGTGCCATAGTAAAGGATTTGCATTTTACTGAGACCGATACATGTCAAGGGAATG
GTATTTAAATTAGTGATATGTGTTGATTTTCAAGGACTATAGCCCATCAACTACAATAGGCTCCAAA
AAATTTCTGGTAAATTAGCTTCTTGGAGCCTTCCAGTTTACCTACTATGTTATTTCCACTATAAAATAT
TCTCAACTTTTGGGTTTTAGCCACTTAAAGTTTTTATTTCTCTAATGTCTCTAGTATCTGCTTTAGT
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GCATTTTTCAGAAAGAATCCTGGAAAAATGGATCTTATCTCACCTGGGCCCTCAGGACTGCTGGGCT
GCCTGGTGTGAGCACTTCCCGCCATTTTCTATAGCACCAAGTATTATCTTAATACTTTAAAAAACCCACC
AGGCACGGTGGCTCAGCCTGGAAATCCAGCACTTTGGAGGCCAAGGTGGGGGATCACAAGGTGAGG
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CGTGTGGCATGCACCTGTAGTCCCAGCTGCTGGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGA

FIG. 16B(12)



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CTCCCACTTTTGGCTTTCTTATGTACCTTCCCTTCCCTCCATCTGATTCCTTATCAGTATTTACACAT
GATTAGTCTTGCCCTAACCTAATAGACCCCTTCTTGAGTGCAAAATCAGTGGCTATTTTGTAGGGTAT
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CTTGAGATTTTCTTTTTTTTTTAAATTTTATTTTATTTTTCAGATGTTTTCTCGCTTGTCAACCATGC
CTGGCCCTAAATCTCGTAGGTTTTCTATGTAAACAATCAGATTTTCTGCAAGTATTAGTCTCCTTTCTA
ATTGTTATAATTTTAAATTTCTTTTCTTTTAAATTTTTCGTAGAGACAAGGTTTGTCTATGTTGTCC
AGCCTGGTCTTGAACTCCTGGGCTCAAGCAATCCTCCCATCTCAGCCTCCCAAGTGCCATTACAGTGG
CATGAGCCACTGTGCTGGCCAAATTTCTTTCTTGTGCGAAGGCAGACTTTTCATACAATACTGAAT
AGAAGTGATAGTAGATTACTTTATTTCTGATTTTCAAAGGAATGCTTCCGTTTCTCTCTGTTGAAGAT
AATTGCGTATTGTTTTTTTTTTTAAATAGTAACCTTTTATCAGGTTAAGGAAGGTTTCTTCTATTCTAT
TTAAAGGATTTTTTAAATCTTGAATTCATATGTTTTTATCTAATGCATTTTCTACATCAGTTGAAAT
GGTTGATGAACCTTTTAAATATGGGTGAATTTATATTATAGATTTTATGTTAAAAATATCCTTGTATAT
CTTGGAATAAACAACCTGATCATGATTTATCTTTTTTATATGCTAGATTCAATTTGTTGATACCTTTGT
TATGATTTTGAATATATATTATGTGAAAAGTGAGCCTGTGATTTTCTTTCTTGTAAATGTTTCTGTC
CAGTTTTGGTGCCTGTTTTGCTCTCTCCTTAGAATGAGCTGGGAACCTAGTCACTCTTGTGTTTCTCACC
TATAATAGCATCTGGTCCAGTGTTTTTTATGTGGGACAAATTTGAACCTTGTTGTTCAACCTCTTTAAAT
GTAAGAATATTCAGGTCTTTTGTCTTCTCTGGCTAGTTTTTTTATTTCTTTCTAGAGATTCGTTCAAT
TTTCTTAGTTTTTATTTGCCATAAATTTGGGATAATCTGTTTTTTTATCTGCTACTTCTGTAATTTATCC
ACATTTGATTTATAATATACTTTGTGGCCAGGCTCGTGGCTCACACCTGTAATCCCAGCACCTTTGG
GAGGCCGAGGGGGGATCAGGAGGTCAAGAGATCGAGACCATCCTGGCCCATGGTGAACCCCGTCT
CTACTAAAAATACAAAGAAAAAATTAGCCGGGCTGGTGGCAGGCACTGTAGTCCCAGCTACTCAGA
AGCTGAGGCAGGAGAAATGGCGTGAACCCAGGAGCGGAGGTTGCAGTGAGCCGAGATCGCACCACTGC
ACTCCAGCCTGGGCGACAGCGGAGACTCCATCTCAAAAAAATAAATTTACTTGTGCTTCTCTTT
TTACCTGTTTGTAAATTTATCAATAACTACTTTTGGCTTTGTTTCAATTTTATTATACAATAAATGA
AATTCTTTTCATTGATTTCTTTTCATTGATTTATCTATAAATCTTAAACAACCTTTATAATTGATGA
ACAAATAACCTGTACACATTTAAAGTGTAAAATTTATTACATTTTGTATCCATGTATATAGCAGGGAATA
TCACCACAACAAGAGTGTGAACATATAATCTCCTCCCAAGTTTCTTGTGCTTTTATAATCACTGCC
TCTTGCCCTGCCCCACTCCCTCATCCTTAAGCAACCATTTGGTCTGTTTTCTGCCACTATAGATTAGATT
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FIG. 16B(13)

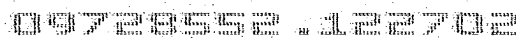
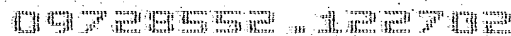


FIG. 16B(14)



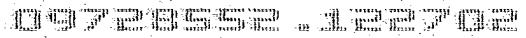
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CCTCAGCCTCCGAGTAGCTGGACTACAGCGCGGTTACCACGCCTGGCTAATTTTTGTATTTTTAG
TAGAGGTGGGTTTTCACTGTGTTAATCAGGATGGTCTCGATCTCGGACCTTGTGATTCACCCGCCCTCA
GCCTCCGAAGTGCTGGGATTACAGGCGTGAGCACTATGCTGGCCATTTTTATTTTTAAACAATAGC
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TCTCCTGCCTCAGACTTCCAAGTGCTGGACTACAGGCGCGCCACCAACACCGAGTAGTTTTTGTGA
TTTTTAGTAGAGATGGGTTTTCACTGTGTTGGCCAGGCTGGTCCACGATCCATCCACCTTGGCCTCCCA
AAGTGTTGGGATTACAGGGGTGAGCCACCATGCACAGCCAGGGTTTTGTTTTGTTTTTACTATT
TTTTTTTTTTTTTAGAGACAAGCTGTCTCCCAAGCTGATGCGAGTGGCACCATTGCTATCTCACTGTA
ACCTCAAAATCCTGGACCCCAAGCAATCCTCCTGCCCTCAGCCTCCATGTAGCTACCTCTACAGGAAAT
GCCCCATACCCCGGAAATTTTTTTTTTTTTTTTTTTTTTTGAGAGTTTTGCTCTTGTGGCCAGGCTGG
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CCTCCTGAGTAGCTGGGATTACAGGCGCGCCACCAAGCTCCTGAGTCAAGTGGTAAATTTTGTATTTTAGTAGAG
ATGGGGTTTTCACCATGTTGGCCAGGCTGGCTCGAACTCCTGACCTCAGGTGATCCACCCACCTTGACC
TCCCAAGGGCTGGGATTACAGGCGTGGCCACCAAGCTGCTGAGCTCAAGTCATCTCTCCACCT
GTAGAGATGAGTCTCACTGTGTTGGCCAGGCTGGTCTTGAACCTCTGAGCTCAAGTCATCTCTCCACCT
TCGGCCTCCCAAGTGCTGGGATTACAGGCATGAGCCACCAACCTGCCCCCTTGCCCCATTTTAAAAA
TTAGGTTGTTTTGTTGTTGTTGAGTTGAGGAGCTCTTTGTATATCTGCAATTTCCGGTTCCTTATTGG
ATATGTGATTGGCATACATTTTTCCCATCCATGGATTGCTTTTTTCATCTGTATAGTATCCTTGATT
CACAGAAGTTTTTAATATTGATGAGTCTGCTTAGTCTGTGTTTTGTTTTGTTGCTTGTGCTTTTGGT
GTTATATCCAAGAAATTTTGCCAAATCCAAGTCATGAAGCTTTGCCCTCTGTTTCCCTCTGAGTTTT
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GGTCCAGCGTTATTGTTACGTGTAGATATACAGTTTTCTGAGTACCATTGTGATGAAGGCTGTCC
ATTGAATTGCTTTTGCAACTTTTTATTGCGCATATTTATGTGAGTCTGTACTGTTCTATATTTTACT
CCATTGATCTATGTGCTATTCTCTGCTAATACTGTCTTAAATGTTAGCTATATAGTAAGCCTTAA
CACTGAGTAGATAGATTTCTCCCCCTTTTTTTGTTCTTTTTTCAAAATTTGTCAGTGGTTTTGTTTTTATT
TTACTTTATGCAGATAATCTGTACTATACTTTGGTTTCATGTATCAAGTAGTTTTGTTCCAGTTGTGCT
TTAAGCAGAAACAATAAATTTTCATATTGTTCTTTGTTGTTAATCTGCAATAATAAACCTATACCAAATC
TATTTTGTGATTGTTTTATTGTAGTAATCTGACTGACTCTTTTGCCCTCCAGACTCATCTCTTCAAGG
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FIG. 16B(15)

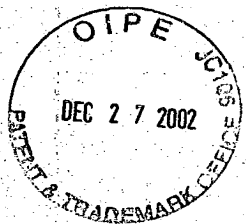
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FIG. 16B(16)

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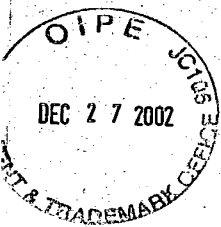
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ACATGTGTGGAGGAGATGGTTAGAGGGGAGAGAGGTTTGAAGGCACCCGCTATGGAGAAATGGAGAGA
GCTAAGGAAAGACAGAAAGACTGCAGAAAGTGCTTAGGGTCCACTGAAGCGGAAATAGTGATTTGTAG
TGATACAAACCCTTATGAGTTATTTGATTTTATTTTAAAGCAGCATCTGGCAGTCCAAAGTATAGG
GCTGACAGTTTGGGATTTTCTTTCCATGTTGGTGTAAAGAAAGACAGTGTAGTGAAGGAAGTTAGGA
CAAAAGAAATGATTGAACAGACACCAAGTTTCTTTGATTGGTAGAAAAGGAAATAAAGATAGAGCAGAG
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ATGGGGGCTTTTCTGGGTGATGACAGCATCTGGAGTACAGCCATTGTCGTGAGTGGCCCAAGTGTAGCA
GAGATAAAGCGTTGTTGGAGTGAAGGAAGTCAAGGAACAGAGGCTGGCCTAGATGGGATTTTGGTT
GTCATCCATGAGGATATTGAAGTCATCCAGGAGAAATAGCAGGCTGGGGGACAGGAAGGAACTGAGCC
ACTTACAGTGTCTCAGTGATAGGAAAGCACAGGGCAAAAAGCTTTCAAGAACAGGGACTGTTAAGCCG
GGTACAGTGGCTCACACCTATAATCCTAGCATTTTGGAGGGCCAAAGCGGGTGGATCACTTGAGGTGAG
GAGTTCAAGAGACCAGCCTGGCCAAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGC
ATGGTGGCACGGCCTGTAATCCAGCTACTTGGGAGGCTGAGGAGGAGAAATGCTTGAACCTAGGAG
GCGGAGGTGGCAGTGAGCCTAGATCGGCCCTTGGCTGCGATCCAGACTTCACTCCAGCCTGGGTGACA
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GGGAGGATCACCTGAGCCCAAGGAAATGGAGGTTCAGTGAGCCCAAGATTGCGTACTGTACTTAGCCT
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ATCTCAGGAAGGAAATATGTGAACATCAGGAACCGAAGTCTACTCAGTTACATGCCATTGGATATATCA
CACAAAGTGTGAGGGAACCTCAGAGGCTCATTTATCTGGGAGTGGGAAGGAGGCACAGAGATGTGC
TTTGGGAAAGTTTAAATTAATAAGCAATGGGAAATGAAGACACACAGAGGCAAGCAAGCAAGA
GACATGAAAGAGTAAGTCATGTGTTGAGGATCTGGGATCCACTAGTCTTAGAGCGGCCGCCACCGCG
TAGCAGTTACCG

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FIG. 16B(17)

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Contig 4 (1241 bp)

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TTGGTGGAGGGAACATCGTTGGTACCATTGGCGAGGTGGCTTCTTTATGGCAACCGCAAGAGCCTTG
AAGCACTCTCACTACGGTGATGATCATTTCTTGCTCGCAGACAAATCAACGTGGAGGTAATTTCTGCTA
GCCTCTGCAAGCTTTCAAGAAAAATGCGGATCATCTCGAAGAGAGATCTCCTACTTTCTCCCTTTGC
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AAAGCGCAAAATCCTGATCCAAACCTTTTACTCCACGACGGCCCTAGGGCTCTTTAAAAGCTTGA
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TGCTCTATCGCTAGGGGACCACTTTTAAAGAGATCGCAATCTGAATCTTGGTTTCATTTGTAATACGC
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TTCGAAGAAATCACATTACTTTATATATATATATATATATGTAATTCATATGTGATAATGCCAATCGCTAAGAAAAA
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GTACTAGAGGAGGCCAAGAGTAATAGAAAAAGAAAATTCGGGGAAGGACTGTGTTATGACTTCCCTGA
CTAATGCCGTGTTCAAACGATACCTGGCAGTGACTCTCTAGGCTCACCAAGCTCTTAAAAACGGGAATT

Contig 5 (1701 bp)

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CACAAAAATTAGGCTGCAAGTCACCATATTCATCAGATACTGGCAGACACTAATCTTGGGGCTATGAC
ACCAAGCAATACTGAAATCTTTATCTTTCCAGGGGGTTGTTTCATGTATTCAGTGTTCGAAAAGAGTT
CCTGCTGAGCTAAACACAGTCCACTGTGCACTCTACGAAAGAGTCCATGAGACAAGCATGGGGAGGGT
AGGAAGTTTAATACTTTACAAATGCCTGTGGAGACGCTGGCAGTGATGAAAGCCTAGAAAACTCATGAA
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CTTTACTGATGAGAAATTCATTCATCTCAGATTAGTCTCTCTCTAGAAAAAGCAACCTTATATAAGA
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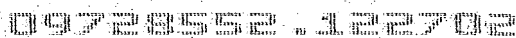
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FIG. 16B(18)

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TCTAGAGCGGGCCACCGCAGGTGGAGCTCGCAG

Contig 8 (18073 bp)

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FIG. 16B(21)



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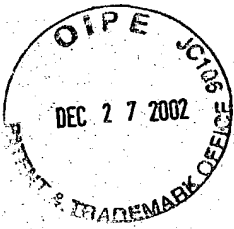
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CATTTTGCACTCCCAAGCAGTGAATGAGAGTTCTGTCTCCATATTTTACAAACATGTAGTATT
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GCAATTACCTAATGACTTGATGTTCTGTGCTTTTCAGATGCTTATTTGCCGTACTGTTATCTTCTTT
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FIG. 16B(22)

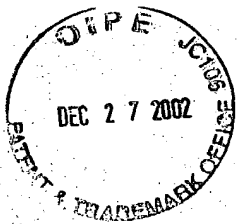


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V
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FIG. 16B(23)



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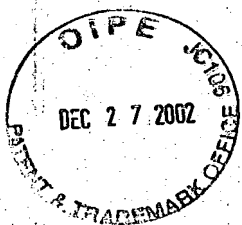
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ATCATAGCACTTTGGAAAGTTGAAGCAAGAGGATCAGTTGAACCCAGAGTTTGAGAGCAGCCTAGACA
ACATAGTGAGACGCCGTCTCTACAGAAAATTTTAAAAATTAGCCAGGCATCGTAGTACATGCCCTATAGT
CCCAGCTACTCAGGAGGCTGAGACAGAGGATCACTTGAGTCCAGGAGGTAGAGGCTGCACTGAGCTAT
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GGAAGGAGAAATGGGTATTGATGTCCATGACAGTTAGATGTGAGATACAGAGAAATGAGTAATAAGATTA
GGTTTGGAAAGGAGGGATCCATGGAGACCATGGAAGGAGAAATGGACATTTGATGTCCATGACAGTTAG
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X

FIG. 16B(24)

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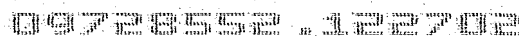
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CTATTTTATGTTTATAGGTGAAAGTATTTTACAATGATGAACCATAAATTTGTGGAATGTTTTTCAGT
GTACAGGTCATGACACAATTCATGAAATCAGTTTAGCAGGCCACCACTAGTTGTTGTTGTTTATTT
TTAATGGATGATCCAGTTCATGTTTATTTCTTTTAAATGTTACATACAAATTTTGAATAATTTAGTAACA
ACATAAAATGTTGGGTTGTGGCCATTGCTTAGGAGAAAGGCAGGATAAATGTAACAAACTGTATGAGT
GAATGGAAAGGTGGAGACTGTAACACAGGCTGACTGACTGAACAGCCCATGTTCTATTTGTTACTGT
CTTTCAATTTAACAGTTCTGTGACATGACCATGGATAATCATCTCTTTTAAACAGATGCTTGATTTTCA
CTGTATATAGAGGTTAAATGATTTGTTTATGATCTCAAGGCTGACAAATTAGGCCATTTCTCACATTTT
GCGGCTCTTCCACTCTGCTGTAGGGAACTTAGTTTCCATAAACTGACTTAGGTCCTAAATGTTGCCAC
AGCTAAGAATCTAGTTATTGTACATTTAACACAGTTCAAGTCATAGGAGGCTGAGACTATGTTTCTCTA
GTGGCGTTTATTCAGATGAGTAAACACAGAAACCATTTATCGCACATGGGAATTTTCATAGCTTAA
CCCCACATCCCACTTATCACCACCATTTACCAGTCCCTCTGTAACAGTTACAAATTTTATTAATCAG
TATTTGATGATATATTGTAATTATGAATATTTCATGCTGAGCTATAAGTATAAATGGATTGTTTTT
CTTTGACAGTTTTTTTCTGGATTAAATACTTACCTTATTTTGTGTTTATTTAGTTTCTATTAGTCA
GGCAGGCACACTGGCTAACACCTGTAATCCAGCACTTTGGGAGGCCAAGGTGGACAGATCAGTTGAG
CTCAAGAGTTTGAGACCAGCCTGGGGAACATGGTGAACCCCATCTCTACAAAAAATACAAAAATTAGC
TGGGCATGGGTGCATGTGCTTGTAGTCCAGCTACTCAGGAGCCTGAGGTGGGAGGATTGCTTAAGCCC
AGGAGGTTGAGGCTGCAGTGAGTGTGTTTCATACCACTGCAGCTCCAGCCTGGGTGACAAAGCAGACCA
TGTCTCAAAAAGTTATTGCTACTCAATTTCTTACCATTGCTCTCCAGAGCCTCTCAAAACAGCTTTCTAC

Y

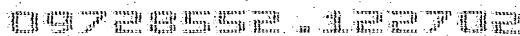
FIG. 16B(25)



N

FIG. 16B(26)

N



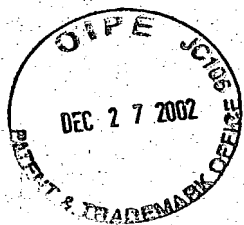
N

[illegible]

A

FIG. 16B(27)

A



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A'

ACTTAAGCAAACCCACCTCAGACTTCTGAGTAGCTAAGGACTATAGGGCAATGTACCCACGCCACGCT
AATTTTAAATTTTCTCAGAAACAGGGACTCACTGTGTGCCAGACTGGTCATGAACCTCTGGCCTCA
AGAGTCCTCAGCCTTAGCCTTCCAAAGCACTGGGATTATAGGCATGAGCCAGGCCCAACATAT
TGATCGTTCCTGTAAAGCTGTTGCAGTCTATTGATATTATTTCTTATTTTCTTATTAGAAATTT
TCTCTGCTAGATATTCTCAAATATCTCTAAATGAGATTGATCTATGTTTTCCTTTGTGTGTATT
CTTTTGTATAAGTTTATGTTTGTGTTTGTCTACATGGAAAGGATTGAAAGTTTACACTAA
AAAAATAGCTTTTAAAGACAGGCTTTTCACTGTTGCCTAGTCTGGAGTGCAGTGGCATGAT
CTCGGCTCATTTGGGCTGCACCTCCTGGCTCAGGTGATCCTCAGCCTCAGCCTCCCAAGTAGCTGG
GATTACAGGTGTGTTCCACCATGCCAGCTAATTTTGTATTTTGTAGAGATGGGTTTCGCCAT
GTTGCCAGGCTGGTCTTGAACCTCCTGGGCTCACATGATTCCTCTGTCTAGCCTCCCAAGTGCTAGG
ATTACAGGTGTGAGCCACCATCTGGCCATTTCAATTCATGTTTCAAATGATTTGAATGAGGAAAAG
TTCTCCCTTGATTTATTAATAGCCTACAGAGCTATTAAATTTTAAATTTTGTACTTTATG
TCTCCTTTTTTTTGTAGGTGAATAACCATTTATTTCATAGGTTTATGCTTTTCTTCTCCAA
AGAACTTGCTATTGTGCATTTATAGTCCTTTTATGTTTACGTTTCTATTTTCAATGATTTTAACTTTCT
ACCTTCTTTAGATTTATTTTGTCTTTTCTATCTTCTGAATTGAGTGTCTTTAATTGCAATCTTTT
CAGTTAATTAACATATTAGTGCTGTGAATTTTGAACAAGCACAGCTTTAGCCACATCCCATAGGTGT
TCTATAGGCAGTTGTATTAGGATGGCTATAAGCTGCTGACAAAAGATACCAAATTCAGTGACTTAA
ATAAGACCAAAGTGCTTTCTCTCCCAAGTTACATTCAGAGGTAGACAGGGCCTTCGCTCAGTAGGG
ACCAAATTCCTTCTCTGTGGCCTGCCATCCTAACAAATATTGCCCTTATCTGTTTGGTTAGAGATA
GTTCTCACCATTTGGGTTCTAGTTCCAAACCACTGGAGGACAAACAAAGGGAATAGGGGCCATTTCTCT
TCCAAAAGATGTGACCTGGAAGTTACTCACATTTGCTTAGCTCACATCCCGTTGGCTAGAATTCATCAC
ATGACCACACCTAGCACAAAGGAGTCTCAAATATAGTCTGCCAGGAGAGCTTGGTCTCAGCTAAAAAA
CAAAGGTTCTGTATCAAGGCAAGAAAGAGACTGATCTGAGGGAGGAGAGTTGGCAGGTTCTGT
CACAAAACCTTCTCGTCAATGTTATTTTAAAGGATTTTCCATTTTGGGTTTTTGTGTTGTGATTTT
TTTTTTTTTTTTTGTAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCACTGGCGTGATCTCTGCTC
ACCGCAAGCTCTGCTCCTGTTTACGCCATTTCTCTGCCCTCAGCCTCCCAAGTAGCTGGGACTACAGG
CGTACACCACCGCTGGCTAATTTTTTTTTTGTATTTTATTTAGACACAGGTTTCACTGTGTTACC
CAGGATGGTCTCATTTCTCTGACTTTGTGATCTGCCCACTTCGGCCTCCCAAAGTGTAGGATTACAGG
CGTGAGCCACCGCGCGGCTGTTTGTATTTTGTAGATGGAATCTCACTCTGCCCCCTTCTGGAG
TACAGTGGTGTGATCTTGGGTCACTGCAACCTCTACCTCCAGGTTTAAAGCAATTTCTGTGCCCTCAGC
CTCCCAAAGTGCTGGGATTAAAGACCGTGAGCCACTGTGCCACGCCCATTTTGGTTTTTGAATTTTTTTT

B'

FIG. 16B(28)



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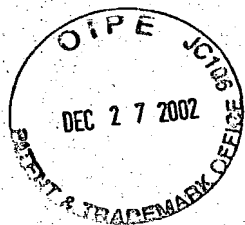
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B'

TCCTTTGAAATAGAGTCTCGCTCTGTACCTAGGCTGGAGTACAGTGGCATGATCTCGGCTCACTGCAAC
CTCCCCCTCTGGGTTCAAGTGATTCTCGTGCCCTCAGCCTCCCAAGTAGCTGGGATTATAGGCACCCAC
CACCACGCCAGCTAATTGTTTGTATTTTAGTAGAGACGGGTTTACCATGTTGGCCAGGCTGGT
CTCGAATCTCTGACCTCAGGTGATCCACTGCACCCGGCCTCATTTTGGTTTGGATTTTATTTTCAAT
GTTTCTTACTTTGTCAATTTCTAATTTTATTGCAATTGGGACAAAAGAAATATTGTACTCTTTCTACTGT
TGGGGTTTATAAGGCTGTGGATATTTCACTCGCCTTTGAAAAGAAAGGTTTTCTCTGTTAGTCTGTAGA
GTTTGGTATGTACCAATTAGATTTTATTACTTATCAATTTTGGTCTTTTGTATCCTTACTTAATTTTGTG
CTCTTGAAATTTTAAATGGAGCAAAAGACATAAAGTCCCTAATAACATGCGTTCTGTTGCAATCTCAT
CTTTTATGAATATTGATGCTGCACTATTGTGTACCCAGGAGAGGCCAGACCCTGTCCAAAGTTT
AGTGAATCTGGCAGCCTTGTTCCTAGTTGTTGGAGGATGCCCTCATGGAGGAAAGCATTCCTAATCCT
GGAGCTTGTGTTGTTACTCTAATTGAATTGTAATGTGTTTCTTAACTGAATGAATGTTTCTATTT
TTTACTTATTACACAGGTAATCTGACTCGAAGGACAGAGAGGTGAGCTGCTCACCTTATATCTGTTG
TTCCCTTTACACAGTGTACAGTATTCATTTATTTCCCTTAAGTTATTTCCATGTTAATCTCATGGAGAGCAATAGA
GTGGCTGTGTTGTTTACTTTCCCTTAAGTTATTTCCATGTTAATCTCATGGAGAGCAATAGA
AACAAAGTACTGTATTCAGTATGTTTTTAAATATAGACTATGGATTCTAACAGCTATGATGATTTTAAAC
AAGTAACAAAATATATCTTACTTTGACATGTCACTTTGTTAACTTACTTTTGGTGATATTAGGTGAT
AATTTCTATACCATTAGTTACTTCTGATTCTAGGCCACAGTTCCCTTTAAATATTCTTTGTTGTTT
TTCCCTAGTGTATAAAATGTCAACCCCTTTGTTGCTTTATATGGATTTTATGGATTTTCAGCCCTTAAA
TGTAAGTCTCTATGGCCTGAGATGTTGTGCTGTGGTTTAAAGCTGGACTGCTGAGTCCCTGGTCACTA
GAGAGTAGGGGACATGGGTACTTGTCTGCAGAGTGTGGCACATTTTGCCTAGAAATGACAGTAAGGT
GCTATCAAAGAGCATGAGAGAAAGAGAAAGATCATCTAACATTTCTAAGAAGTGATTTATACATTTGA
GTTTAAATGTTACTATTGAAAGCAGTGTGTTTATCATAATTTTCTATTTATCAATCAGACTTGA
GTTTCTTTCTGATTCTGTATTTAACCATAACAAATTTCCCTGTGTAATTAAGTAATGGAACACTTG
GAGGCATATGAAGTCCCACTAAGTAGGGAGCATTTGAGTCAGAAAAGTGGGTACTCTCTTCTTTATGT
GATGTCCATCTGCCATTGTATTTGGTAAGGAATAGTGAGGTGTTACCATACTGTGTACAGATTTCCCTC
ACTTTCCACCTCTCACTTTCTAACTTTGGAACTAAACATTTGGATTAATACAGTGTCTTTGCTGTTT
AGATTCACTTGGCAGATTTTATCAAAATGTAGACTTAAATAGGTTTTTATTTGTGATAGATATTACTTGT
CCCTAAAACTGCTCTTAACCCAGCCTTACAATAAAGTCAAAAGTCAAAAGTGGTAGGCTTCAAGATGAA
ACATAAGATCTGTTGACTCTTCCCTCTATTTAGTATATATTTTCAATAATATTCAGCCTTTTCTTGCCCC
AGATATCATATCTATTTTACCTACCCCAATATTTAAGTAGTTTCCATGTTGTGATTAAGAAACAAAAT
ACCATATTACCTAGATTATTGCTAATTGTGACATATGTAAGTCTATTATGTAATAAATCTCCTTTC

C'

FIG. 16B(29)



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C'

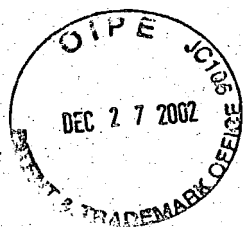
TTAAGTCAAAAAATAATTTTGTGTAATTCACAAACAGGAAACTGAAAAGGCATAGGTATTTCTCAGCAGTC
TCTAAAGTCCCCAAAATCTAATGGCAATTTTACCAGAGCAGATCTTTAGAAAGTATTGCTATATAAATTTGGA
TATCCCATTTCTAATTTTAAGCCAAATGCTTTTTCAGAAAATAAGCCAGCTGTTTGGAAATGCTTGTATTA
TAATCGGTTTGATAAGCAGTTATGCTTTATGCAGATGAATTAGGGGCTACCTGTTTTATGCACCTGGTC
TTTGGGGTGCTTTTGAACAGTAGTGTCTGATGTTTAAATGTCAAAGCAAAAAGAAATGAGAGGGAGGG
CAACTTTTCTCTCTCTGAATTCAGGAAACTGGTTATTTTCTCATGCCATATGATTTTAAAAATATA
TTCCAGCCAGGTGCAGTGGGTACGCTTGTAATCCCAGATTTTGTGGATGCCAAGCGGGGGGA

Contig 9 (7505 bp)

TCCGAGCTCCACGCGGTGGCGCCGCTCTAGAACTAGTGGATCCCTCTGGTGGCCCATTTGAGAATCAAA
ACTTGCACTGAGTGACTCTATAAAATGGAATAATGAATCAAGTCTGAAAATGATCCACATAGTTCTACA
GCAGGGCTGGACACCGTGTGAGGACCTCAATATATCTGCTCCACAGAAATTCAGACAGTTCAGAGTT
TGGTGAATTAACCTCAAAGGCAGCAAGATATCTGTCCCGGGAGTCAGCAGGTAAAGCATAGCAGAAATGG
CTGGAGCAGGGGAGCCTGCTTTCCCTTCTGTTGGCTGCTAGCGTCCACTCCATTATAGCTCCTGATGGA
AGATTTCTACAGAGTGATGCCCTCAGAATCTTCCCTTATACCTTTCTCCATGATCCTTGACCTCTTTT
CTAGATTTGCCACATTTCTTATGTGCAAGTAACTAGATATACATTTATCAGACAAGCTAGCAGACCTGCA
TATATCCACTTCCCTACTTTTCTTATAATTTCTTCCCTGAACTCTATCATTTCTCTCTTCTGTT
GACTCTGGTGTAACTTGCAGGCAAGTTGAGCGTGGTTTGGTGTACACA: TGAAGGACTAAGGGAATA
GTTAGCCTTCTATTTATTAACAAATCTTCCCTTTGATGTCTGGATCAGTGTCTCTCTAATAGGAATAT
TGGCATGTTAAGGCAAGAACATATGCTTATAGTGTGCTGACTGATTGGGTTAATACTAATTTGATAC
TATTAAGGTGTGGGCCCCAGGAATGCCAAATTTCTACCTCAATGTAGAGCCACCATTCCCTTGAGGTA
ACCTAGGTGGGATAGATATACGTGAAGGCTAATGGAAGATAGGGAATCAAAGTATCACTTTATTTT
TATTTTATTTTATTTAATTTTGTGAGATGGAGTCTTGCTCTGTTGCTAGGCTGTAGCGCAGTGGC
ACAATGAAAAGTATCACTTTATTTATATCTGAGCTTGTGCCCTAAACTTCACTGCAGAAATATGCTGGTAA
AATGGACTGGATTACAGGATTTAGAGGCAAGGTCCACAGGTCAAGGATAAGAGGTAAGAGGGAATCTT
TCTCTCTTCCCTAAGCCCCAACCTCCATGACAAATGAGATTAAAAAATAAACTGATGAGAGAA
TCCAAGCACAGTTGATCAAGAGGAAAGAGAAATGATGATGTTTCCCTCTTTCTTTTCTATGAGAAAGT
GGCTCTCTTATTTGATCGGCTACTTGATTAGAGAAACAGTGGGGAAAGAACTGCCATATCCACATGTGC
AATTTTTTAAACACACAGTGATTTCTGAACACTAGTATAAATTTCCAGTCAGTGTCTGGCCATCTGAC
TACTCAGGTTATAATACCTAATTTTACAAGGAGTTGGGAAGTGTGCCAAACCTGTAGAAAGTCTATAT
CTACTGTATTCAGATTTTATATGCAATTTATATATAACCTTTTGACCTCTCTCTCTATCATCACTTG

D'

FIG. 16B(30)



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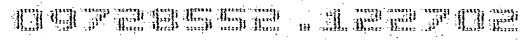
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D'

AGTGATTTTCATCCAGCGTCATCATTTAACATATATTTAAATAAAGCTCTATATACTGATAAATTCACAAATTT
ATATCTCCATCCCCGATTGTTCTCTAACCTCCAGCCTCTAATATCCAACTGCCTACTCAAGCCTCAGC
AATGGTGAGCGCCCCCTGCCAGCCTCGCTGCTGCCCTGCAGCTCGATCTCAGACTGCTGTGCTGGCAA
TGAGCGAGGCTCCGTGGCGTGGGACCTTCCGAGCCAGCGCAGGATATAATCTCCTGGTGTGCTGTTT
GCTAAGACCGTTGGAAAAGCACAGTATAGGGTGGGAGTGACCCCAATTTTCCAGGTGTGCTGTACACA
GCTTGTGCTGGCTACGAAAGGGAATTCGCTGACCCCTTGCACTTCTGGTGAGGCAATGCCTCGCCCT
GCTTCGGCTCATGCTCAGTGGCTGCACCCACTGTCTGCACCCAGTGTCCGACGAGCCCCAGTGGGAT
GAACCCGGTACCTCAGTTGGAAATACAGAAATCACCCGTCTTGTGTCCCTCATGCTGGGAGCTGTAG
ACTGGAGCTGTTCTATTTGGCCATCTTGGAACTGCCCTTGCAATCAGTTTAAATATCCAACTGCCTAT
ACGATACTTCACTTGGATTTTGAATAGGCATATCAAACTTGTCATGTTCAAAAGTGAGGTTCTAATCT
TCCCTCCCAACCTGCTTCTCCCATGGCTTCCCCCATCTCAGTAAATAGGAATTTCACTCCTTCCAATTG
CTCATGCCAAAATTTGGGAGTTATCCTTGACTCTTCTCTTTCTCACACCCACATTCATCCCATCACC
ACATTCTGATGCCCTCATCTTCAAGATATACTTAGACTTTTACCACCTTTCTTCACTCTGCAATTACCA
CTTTGGTCCAAGCCACTGTATCTCTTCTTGGATATTTGTAATAGCTTCTTAATAATTTGTCCCTTT
CTTCCACCTTTGTTTCCCTACAGTATAATCTTAACGAGCAGCCAGATGGTGCCTACAAACCTTTA
AAATGGTAAGCCAGAACATGTAGGTATATTCAAAACCTTCCAAATGGCTTGTATGGAACATAAAGCTC
TACATTGGCCTATAAGACCCCTATGTCTATACCCCTAGTCTCCTCTTTCTAACTTCACTCTCCTGCTAT
GCTGTCTTCAACTCACTGTCTCCAGGTGCTGTGGCTCCTCAAAACACACACACACTTGCAGCTC
ACAGTCTTGGCACTTGTCTGTTCTTCTCCTTAGGACCTTCTTCTCCAACTGTCTGTTTCAACCCACCCC
TTCCTTCTGGATTTCTGCTCTGATGTCTATTTATCAGTGGGCACTTCCCAATTTCTCTATTTAAGACCA
CAATTCAGGCCAGGTGGTGTCTATGCCCTGTAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATC
ATGAGGTCAAGAAATTCGAGACCACTTGGCCACATGGTGAACCCCATCTCTACTAAAAATACAAAA
AAATTAGCCAGGTGTGTGGCACATGCCCTGTAATCTCAGCTACTTAGGAGGCTGAGGCAGGAGAAATCGC
TTGAACCTGGGGGAGAGGTTGTAGTGAGCCGAGATTGCGCCACTGCACTTCAGCCTGGCAATAGAG
CGAGACTCTGTCTCAAAAAAATAAATAATTTGCTGTATTTCTCTATCTATTTTGTAAAGCAAGGAC
CTTATTATTTCTCTGATAATACCTCTCACACTTTTATAATTACATATTTGACTTTGTTGATTAAATGAAT
ATCCCTCCTTTATAGCATAAATTCACAAGAGCAAGGATTACATGTCTGCTTCACTTCTCACTGTACACC
TAAACCTAGCACAGGCTCTCACACATAACAGGCACAAAAACAATAAGGATTACGTTGAGCCAAAGAA
CAAAAAAATAAGTAATTTATCACTAAATGTCTTTGTTAAATTCACAACAGGGGCGAGTATATCAGG
TATTATAAGAAAGTAATTAGGCACATCCCAGCACTTTGGGAGGCCGAGGGGTGGATCACAAGGTGAG
GAGTTCAAGACCAAGCCTGGCCCAATATGGTGAAACCCCTGCTCTGTCTGTAATAATAACAAATTAGCGGGTGT

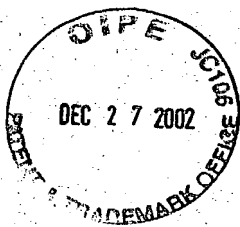
E'

FIG. 16B(31)



U

FIG. 16B(32)



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F' _____ F'

AACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTC
TGGGGGCTGAGGCAGGAGAAATCGTTTGAACCTGGAAGGCAGAGGTTGCGGTGAACCGAGATCGTGCCAT
TGCACACCAGCTTGGGCAACAAGAGCAAAACTCCGTCTCAAAACAAAACAAAACAAAATGAAAACAAA
CAAAAAACACCAACATGATTAGGAGGGAATAATCTAGATAGAAAGGCTTAACAGGGCCGGCACGGT
GGCTCATGCCTGTAAAGCCCAACACTTTGGGAGGCCAGGTGGGAGGACTGCTTGAGGCCAGGAGTTTGA
GACCAGCCTGGGCAACTTAGCGAGACTCTGGTAGTCTGTCTCTACCAACAACAACAACACACCTGAT
TAGCTGGGCATGGTGGCATATGCCATAGTCCAGCTACCCGGAGGCTGAGGCTGAGGCTGGAGGATCGCTTGA
GTCCAGAGGTTCAAGGCTGCAGTGAGCTGTGATCAGGCCACTGCACCTCCAGCCTGGGCGACAGAGCATG
AGTCTGCCCCAGCCTGCCCTCAAAAAAAGAAAGGCTAAATAGGAGAACTGATATAACTGAAAAACCAAA
TTAGTTGTGTGAAGAGCAACTGTCCTGGAAGCTCCAGAACACAGAGCAATAAGAGATGAAAAATATG
ACAGCATAGAAAAAGAAAGGAAGTGGATAGTCCAGGAGATCCAATACCTGTGCAACAGGAGAGTCCAAA
GAAGAACCCAGTAAGAAAGGAGAGAGTAATAACAAGAAAGTTCTGAGTTATCAGGCCAAAAGAAATAA
TCTAGTTTGTGGAGTAATATTGACAAAAAAATCTTTACACCTAGATGTATTCTGAAAAAATCTTAAAT
TCTAATTGAATCAACCAACGAACCCAGGCCAGCCTTAGAAAAACCATTCCAGGGCATGGGTTTTAG
GGTCTGACAGACCTGAAGTTCAAAATTCCTACTATCCTAACTTACTAGTAGTGATGATAATCTTTAGAAC
AATGTATGAAATGGAAGCATAATAGCACCTCCACCTTTAGAGTTAATGGGAGATCTAAAAGAGGTAA
CATTGCAAAAGTGTCTGACATGAAGGGAAGAGATTGGCTTTGGCATCCACAAGTTCACACACTAGCAGA
GAACTCAGTCCAGCTTCCACGCTCAGGCAGTCTTTGCTTAGAAGAGGGTCCGCAAACTATAGCCC
AAATTTAGCCCACTGCCTGTTTTTGTAAATAAATGCTATCAGAACATGGCCATGTTCAATTCATTACA
TACCATCTATGGCTGTTTTCAACCCCAACTTCATTCCAGCAAAGTTTTACTTTCTAGATTCAGGCCAGGGAGC
AAAGCATGAAAAATGAAAACCACTAAAATGGTGTCCCGGACAAACAGATACCTACTTGTATAACTTCTTT
CCTTGAAAACAAAGGGCCATATTAAATTGAAGGCTCACCTCTAAACAGGTGAGTGACTTAAGGACTTCA
GACACACACTGGTCAACTACAAACTAGTCAGTAAGGAATAGCCATAGTCCCTATAGCCCCAGTTCCCTAT
GGCCAGGGGGATCCACTAGTTCTAGAGCGGCCGCCACCGGTGGACTCCAG

G' _____ G'

FIG. 16B(33)

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Contig 15 (529 bp)

GCTGAGGTGCATGCGGTGGCGGACGCTCTAGAACTAGTGGATCCCCAAACAAAACCTGTCCCTGCTCTAA.
TGATGTTAGACCCCAATCAGATCCCGGAGAAAGCCGAATACGGAAACCATATCAGCATACGCATGGCAT
ACATAGAAACCCCATACATGGATTGCTTACTCAGCCAGATATAGAAATCTATCTTCAGCATAGAGATATA
TATATATAGACACACTGCATATACAGATGTGAGATGGAGGCTCACTGTGCCACCCGCTGCTGGATCTACA
GTGGCACAAAGCTCAGTCCACAGTCACGTTCGATCTGCCGGCGTGACCGACTGAGATGCAGCGGCCCTCGG.
TACAGCATGACGGCTAGGCAGGCCGCAAACTGAGGACCACAAGAGTGCCACGCTGCCCCGAACGCATGCA
GTGGCGAGATTACATGGGGCAGCCCACTAGAGCCGCCGTATCAGAAA

Contig 33 (635 bp)

TACCACGGGTAGCGCGCTCTAGAACTAGTGGATCGGTAATCCAGCACTTTGGAGGCCAAGGAGGG
CAGATCACCTGAAGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCTCCATCTCTACTAAAAT
TACAAAAATTAGCGGGCGTGGTGGCGCATCCCTGTAATCCCAGCTACTCGAGAGGCTCGGCGCATGACA
GTCACTCAAGCCCCGGGAGGTAGAGTTGCAGTGAGCTGAGATTGTCCCACTGCATCCAGCCTGGGTGG
CAGAGTGAGACCTGTCTAAAAAATAAAAAAAGGCCCATTAGGGGACCCAAACGGTTCCCCCAGC
TTTGTGGATTCCCCAAATTGGGGCCAAATTTTGGAGGGTTGTCCCTTAAAAATTTAAATTTGGGGG
TTTTTTTCCAGCGCCCATTAGAAATGGTCCGAAATTTTGGCCAAAAAATTTGGTTTAAACCGC
GGACCAAAATCCTAAGTTTAACTTTTCTAAACCTTTTAGAATTTAAAGTTTCCGGGTTTCTCAGG
AGGGGGTAACCCCTTCACCCCAATATAACTCGGAAACCCCCCTTTTTTAGGAAAAAGGGGAATTAGTGGTG
CTTTCGGGGCCAAA

Contig 39 (938 bp)

CCGAGGACCAAGCGAGTGCACCGCTCTAGAACTAGTGGATCCCCCTTGAAGACTATATTTCTTTTCA
TTTCCACGTGCTATAAAATAAATATATAATTTAAATTTTAAATATAATAATAATAATAATAAGTA
AAAAAAGAAATTAAAGAAAAATAGTTTTTGGTTCCGAAGATGATAATAGTTGAAAGTTAGAAATT
ATTATTATAATAGCAAAAAAATTTAAAGTTAGAAATTAGAAATTTAAGGCTCTACACACGTTTACGATG
ATATTGGACGAACGACAGATTAGACAGTTGTAGGTTGTGTGATGTTTTTGTAGTGATTTGTAGT
GTTTAAACCTGTGGTTTGGAAAGGTTNGTATGAGTATTAATCTCGGGCTTATGGAGGTTTATGTGCAA
TGTGCATTTTGTGGTTTTTTTATAAGTTGTGTTTAGGGTTAAACCTGTTGTGTATATTGTGTGGTTTG
TTTGTGTTGTTGTACATTGGTATGATGCCNTTTTTGCTTATGGGTTNGGTGTTTGGTTTGGTGTGTTT
TTTGTGGGTGTTGTTTGATAGTTTTAGCGGTTGTTTTTGGGTTGTGTTTTATGTTGGTGGTGGTTTT

FIG. 16B(34)